



Helping You Become More Competitive



Local Service. Global Delivery.

3Nexus

Your Trusted IT Partner

# Helping You Become More Competitive



**3Nexus Solutions for Software Providers**



**3Nexus Solutions for Healthcare**



**3Nexus Solutions for Finance and Banking**



**3Nexus Solutions for Education**



**You control your projects with us. Or you just kick back and watch us perform. It's your choice.**

# CEO Letter

## Welcome to 3Nexus!

On behalf of my colleagues at 3Nexus, I'm pleased to introduce our company profile. As you explore the pages, you will gain a greater insight into who we are, what we do and how we deliver specialized IT solutions around the globe. At 3Nexus, your result is our commitment!

Knowing 3Nexus is knowing our skilled and passionate team. We are the best assets to our own company providing our years of professional expertise and experience to our customers. We earn assignments tomorrow through today's performance.

We build our offshore IT outsourcing solutions on the perfect blend of seasoned US and Vietnam IT professionals. With our headquarters in the Washington DC region, we are aware of our American, Canadian, and European customers' increasingly high standards. Both our vision and mission are well aligned with the long term goals of our customers.

I'm honored to be the leader of a consulting team with inquisitive intelligence. Hiring professionals with ethics, passion, purpose and perspective, while sustaining an environment in which they can perform exceptional work, is always my top priority.

I also invite you to read "Your Offshore Outsourcing Relationship Management Companion" currently available to download on our [3nexus.com](http://3nexus.com) website. You will find a wealth of proven success factors that many of your competitors analyze and apply before and after committing to an outsourcing agreement.

Thank you for the opportunity to introduce our company to you. I am sure the booklets provided to you will educate you with both the information and assurance you need to further your relationship with 3Nexus.

Sincerely,

Nam Nguyen

CEO



## ***Nam Nguyen, Founder and CEO***

As chief executive officer, Nam leads the organization as a whole, developing business strategy, and leading the corporate management team. Nam established 3Nexus on the foundation of commitment to customer's results.

Nam's expertise in high profile commercial and government systems coupled with his passion to bring the best blend of seasoned US management and talented Vietnamese development teams are invaluable to 3Nexus' customers.

Prior to establishing 3Nexus, Nam managed engineering teams in China, Vancouver, and Boston to support major Blackboard enterprise products with an annual subscription of \$80 million. Nam also led and supported the development efforts in multiple large projects for the Centers of Medicare and Medicaid Services (CMS,) IRS, NASA, and DoD at Northrop Grumman, CSC, ITT Industries, and IBM Corp. In 1999, he started Superb Price LLC, an Internet company that applied web services to allow consumers to compare prices online.

Nam is a current PMP holder. Nam holds a Bachelor of Computer Engineering from University of Maryland at College Park and Master of Computer Science from John Hopkins University.



## ***John Scordos, Vice President of Operation***

John brings to 3Nexus more than 24 years of executive management experience as Chief Technology Officer at United Press International, Business Director for the Washington Time Corp, Vice President of Operations at Ando Corporation, Vice President of Sales and Operations at Donjo Inc., and Information Technology Director at the Pennysaver Group, Inc.

John's profile would not be complete without a long list of successful enterprise solutions implemented under his leadership. His solutions include enterprise resource planning (e.g. ERP, SAP, Oracle and Unisys), healthcare data management via HIPAA regulations, enterprise-wide web presence, corporate data via IP, cable and satellite, e-business (Oracle), network infrastructure (LAN, PBX. ISP) and more! His experience in managing direct employees located locally and remotely in Washington, New York, Japan, and London is also invaluable to 3Nexus and its' customers.

John has earned the trust and admiration of every single company where John worked by his work ethics, sincerity, and talents. John continues to bring 3Nexus' clients and partners the outsourcing relationship that is much needed to succeed in today's dynamic environment.

John earned his Bachelor degree in 1983 from University of Maryland.

## Helping You Become More Competitive

3Nexus brings you committed local services at aggressive global pricing. The team includes offshore subsidiary and solutions partners consisting of 800 engineers and managers in Vietnam (CMMI Level 3 and ISO 9001), over 500 in Belarus (ISO 9001), and 150 in India (ISO 9001). Adjusted-to-North-American time and 24/7 operation are available for your team.

Beating the competition demands discipline and focus. Every operational change must link back to how it creates competitive advantage. We work with our clients to determine what actions will create the most advantage, and then we help them turn those strategies into shareholder value.

### 3NEXUS CLIENT COMPETITIVE ADVANTAGE

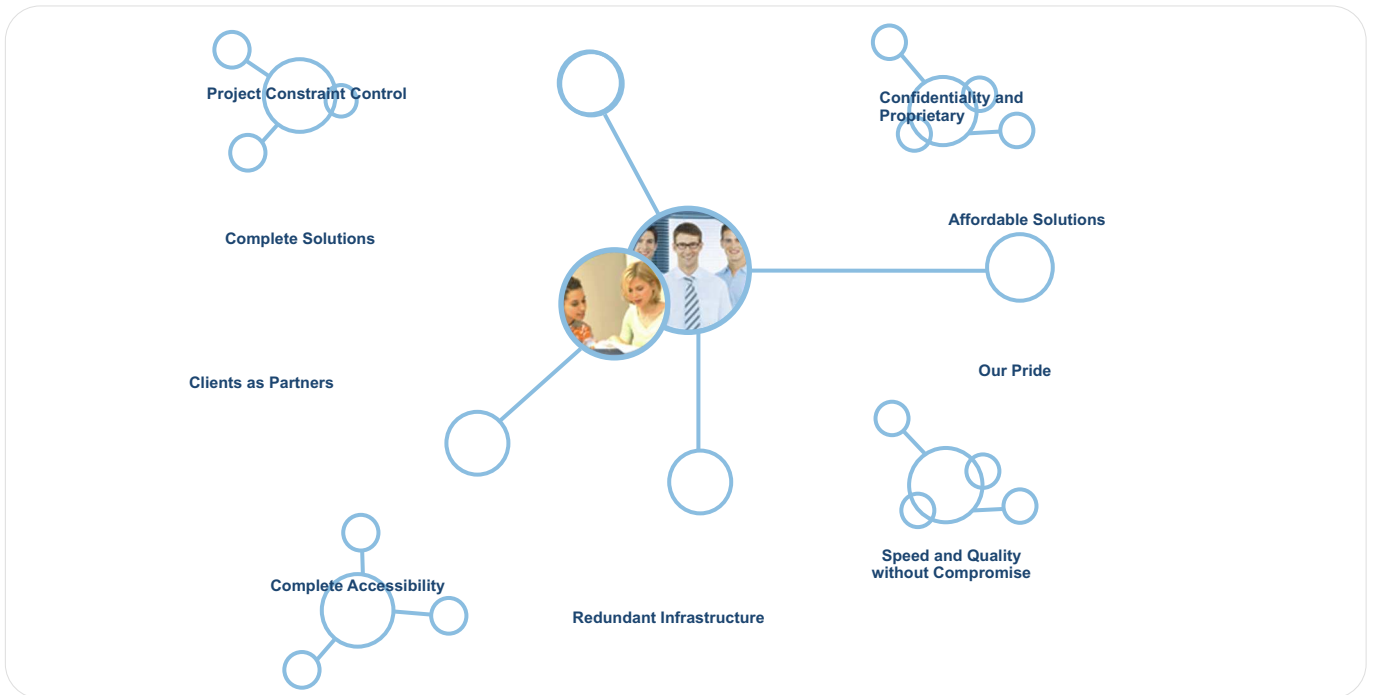


We help our partners and clients become more competitive. If it does not make you more competitive, we will not do it. Here is how:

- ◆ Save up to 70% of your current development and overhead cost. Increase your profit margin
- ◆ Shorten time to market by 50%
- ◆ Free up your project management and development time without compromising on quality
- ◆ Enhance measurable quality and service level matrix
- ◆ Offer leadership and mentoring roles to loyal and talented employees
- ◆ Expand your services at minimal investment and cost

Your success keys	Your ROI
<p><b>Flexible staffing</b> You control and adjust your staffing level based on demand. You can adjust team size for both long-term dedicated or project-based resources.</p>	<p>You increase your service level by additional time and attention to your customers. You save on staff retaining and overhead costs.</p>
<p><b>Aggressive pricing</b> We offer very aggressive pricing for our offshore and onsite bridge consultants. An onshore engineer often costs 3-5 times as much as our offshore consultants. Our consultants are highly skilled and known to produce wonder productivity.</p>	<p>You increase your profit margin. You are more competitive in the market.</p>
<p><b>Open access to expertise</b> You are backed by 1,500 skilled and affordable engineering resources in your industries and disciplines.</p>	<p>You afford larger skill set to expand your service. You can leverage your current employees who understand your customers best to offer additional services and support.</p>
<p><b>Onsite project management</b> 3Nexus US project managers work closely with our offshore teams to manage your projects.</p>	<p>You free up your project management and development time. You reduce project risks by allowing 3Nexus to control, monitor, and manage risks.</p>
<p><b>Integrated corporate culture</b> We position ourselves to assist you with your short and long term goals, tactical and strategic plans. We listen to your staffing vision, corporate direction, service expansion, etc., and discuss course of actions to get you there.</p>	<p>You have no compromise on long term corporate missions. You can leverage our support to get to where you want to position yourself in the next 3 or 5 years. Working with our aggressive solutions does not mean your employees should be let go. Instead, they are focused on leadership and challenging responsibilities to lead and train others while growing the company.</p>
<p><b>Integrated development environment</b> We can integrate our development environment with yours. This creates seamless communication and information exchange and sharing between multi-national teams.</p>	<p>Your employees and 3Nexus consultants are now in one team working under one infrastructure. Your throughputs are increased. Your team's morale is high.</p>

## Why 3Nexus



### 1. Project Constraint Control

In today's dynamic environment, companies constantly face time, resource, and budgetary constraints over critical business needs. 3Nexus carefully balances and controls these challenging constraints. We provide you the ultimately integrated service that delivers results, and improves your company's bottom line.

### 2. Complete Solutions

Whether you need full life-cycle software development, maintenance and operation, validation and verification, dedicated offshore development center in Vietnam, or value-added NT consulting in the US, you will experience our professional care with complete solutions by technical and management experts having many years of experience in various industries.

### 3. Clients as Partners

We take you as our business partners. From the very start we will interact closely with your requirements to help you achieve the best possible results. We believe better possibilities and result from collaborative work.

### 4. Complete Accessibility

You have complete access to our project managers, analysts, engineers, and quality assurance specialists. Through onsite meetings, joint application development (JAD) sessions, intranet, teleconference, email, and online chat, you can effectively interact with our people at anytime. Our architects, analysts, and business managers in the US and Japan are available to collaborate with you, and answer any questions you may have. Our developers and project managers can always obtain Visa status through an expedited process within 2-3 weeks to arrive onsite at your company to gather requirements, deploy applications, and/or train your end users.



## 5. Redundant Infrastructure

You have secure access to your own project intranet, risk management database, defect tracking site, source code version repository, reports, and document management tool.

## 6. Speed and Quality without Compromise

We apply proven CMMI, SO, and PMI processes to make sure that the highest quality and fastest turn-around time are achieved. Requirements must be measurable. Risks must be identified and managed early and effectively. Communication and collaboration must be result-oriented. Working with us, you will experience a well-oiled system.



## 7. Our Pride

3Nexusers are the pride of the organization. We establish a healthy environment for growth. We provide caring support for work-life balance. As a result, the brightest individuals whose values are well-rounded in technology innovations, initiative, and team work are joining and staying with us. Their passion for success drives 3Nexus and its customers/partners from one accomplishment to another.

## 8. Affordable Solutions

Not all effective solutions come with a hefty price tag to match. We provide affordable yet quality based solutions that are beneficial for both of us.

## 9. Confidentiality and Proprietary

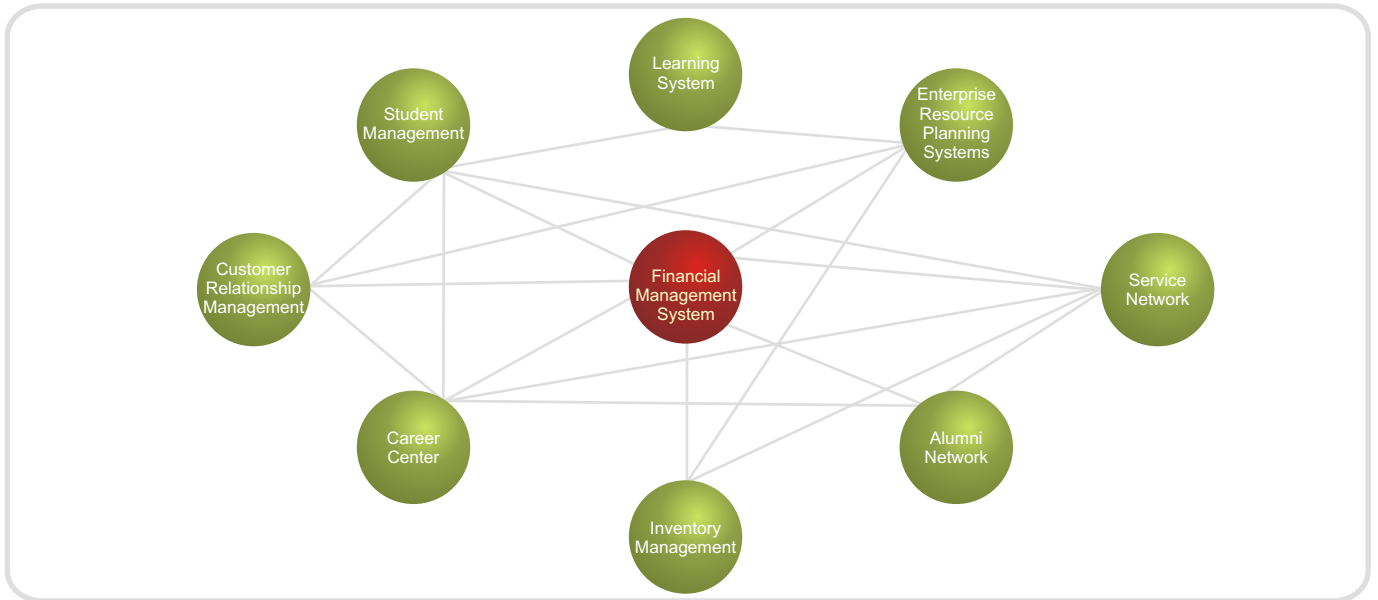
Whether you work with us for your NT department, or you have us support your clients. Your confidentiality is strictly respected and enforced. We do not share your company's confidentiality with any other parties without your written consent. In addition, you are the only copyright holders. You have full access to your source code repository and documentation at any time before, during and after development.



# Application and System Integration Solutions for The Education Industry



Advanced technologies and innovation offer educational institutions across the globe unprecedented capabilities to connect students, instructors, teaching, learning, researching, assessing, and business opportunities all together. 3Nexus brings the proven expertise in custom development solution and system integration to deliver world-class educational experience to your institutions.



## ■ Financial Management System

Customize and integrate COTS e-learning solutions

Handle all your financial transactions, including general ledger, journal entries, budgeting, and account setup and maintenance in one system, with comprehensive tools and reports. Faculty heads and account managers can track revenue and expense independently in a unified system.

Manage budget creation, allocation, and distribution. Provide budget tracking, reporting, and alerts that notify the responsible users whenever a transaction exceeds a monthly or annual budget limit.

Track all banking processes such as cash receipts, check writing, deposits, advance payments, credit card payments, and account reconciliation. The client interfaces of this tool are online tuition payment, accommodation and meal account management, and other services like library, printing, parking, and etc.

## ■ E-learning System

- Customize and integrate COTS e-learning solutions
- Create powerful learning content, using a variety of different web-based tools
- Develop custom learning paths for individuals and groups
- Facilitate student participation, communication and collaboration using tools that enable synchronous and asynchronous interaction
- Evaluate students' work using a rich set of assessment capabilities

## ■ Student Management

- Customize and integrate COTS student management solutions
- Process student application and admission
- Significantly reduce time spent creating complex class schedules with sophisticated scheduling algorithms with considerations for: teacher availability and qualifications, class size limits, room types and size, course rules and gender balancing. Allow student to register for classes online in real time.
- Help cultivate faculty-parent relationships by providing teachers and parents secure, direct access to critical student information
- Save time and improves data accuracy by immediately updating biographical changes in student/parent records across offices

## ■ Enterprise Resource Planning System

Customize and integrate COTS ERP solutions (SAP, Oracle, IBM, Microsoft)

Control process for employee salary and benefit management

Enable employee self-service portal including e-pay, healthcare, insurance, tax withholdings

## ■ Services Network

Develop a variety of custom applications and integrate COTS solutions

Manage library and e-library

Manage accommodation and meals. Control access and inventory for dormitory buildings

Facilitate online access to conference center calendar, questionnaires, customer service requests, surveys, and activity scheduling

Process and track progress for student exchange and study abroad applications

## ■ Customer and Partner Relationship Management

Customize and integrate COTS solutions

Provide easy customer, partner communication management across departments. Integrate communication via multiple channels including online, email, and IP conference

Help design, execute and track progress of marketing campaign

## ■ Career Center

Develop custom applications

Connect students to domestic and international businesses

Assist students in job application process

Help businesses and other educational institutions manage exchange students or employees.

## ■ Inventory Management

Customize and integrate COTS solutions

Enable controlled process for asset management

Manage inventory purchase, lease, loan, distribution, and location

Track product life cycle, lease period, software and hardware license, vendor warranty, and etc.

Provide compliance and maintenance information

## ■ Alumni Network

Develop custom applications

Connect students and alumni around the world by strong online community

Help facilitate alumni association activities including travel, conference, charity, business meetings, and etc.

Enable online donation contribution



Healthcare transaction requires large volume of information securely exchanged between healthcare providers, payers, and insurers. It is vital to healthcare organizations to consolidate intelligence data, maintain data integrity, and ensure regulatory compliance. 3Nexus solutions help healthcare organizations increase operational efficiencies, reduce administrative and delivery cost, and enhance patient health and wellness. Through proven technologies, industry best practices, and global delivery capabilities, we provide high-quality healthcare application development, re-engineering, and testing solutions with effective pricing.

## ■ Business Intelligence and Workflow Management

Support hospitals' sourcing business intelligence. Enable hospitals to manage their sourcing vendors and supplies smarter with high-quality data.

Enhance contract management efficiency. Minimize purchase order errors and streamline e-commerce transactions between trading partners.

Apply eContract Readiness to match customer requests with General Purchase Order (GPO) number, price, and contract Unit of Measure (UOM). This provides contract administrators, materials managers, and buyers the ability to view items bought on/off contract. eContract Readiness currently supports HPG and Premier.

Perform routine Content Analysis Assessment that improves ordering processes and adhere to contracted pricing. Save costs for healthcare organization through each step of the supply chain.

Enable user to identify demand level of an encounter by Supply Optimization. Based on the demand level of the encounter, an item set that best fits the demand level as well as optimal procedure cost and revenue are suggested.

Provide web services to automate communication between supplier eCatalogs and healthcare providers.

## ■ Data Integrity and Compliance Management

Perform advanced data analysis, normalization and standardization services for multiple sources data including Purchase Vendor Master File, Item Master File, and Purchase Order.

Consolidate and enrich Purchase Vendor Master File from multiple legacy sources.

Classify products contained in the Item Master File according to the United Nation's Standard Products and Services Code (UNSPSC) for spending analysis, product sourcing, and budgeting of supply expenditures.

Enable data cleansing solution to standardize, assess, enhance, and correct data across multiple systems. Utilize powerful, algorithmic data matching capabilities to identify relationships between data records for de-duplication or group-based processing. Maintain data consistency and integrity throughout the enterprise.

Assign and comply with Level II Healthcare Common Procedure Coding System (HCPCS).





## Technologies

- Data Identification and Discernment base on Artificial Intelligent S-O network theory
- Objective Text Mining model applies for Data Normalization and Standardization
- Lisp and AllegroCache - The enabling technology behind Allegro CL 8.0 persistent objects is a high-performance, scalable, dynamic object-caching database
- Ruby on Rails
- Java(TM) SE Runtime Environment
- Web Services & XML
- PostgreSQL
- YUI & EXT library - Set of utilities and controls, written in JavaScript, for building richly interactive web applications using techniques such as DOM scripting, DHTML and AJAX
- Loquendo - An interactive text-to-speech programming library
- FusionCharts - Animated, interactive and data-driven Flash charts for Web application and presentations
- Windows
- Linux 64-bits (Fedora Core 6, 7)
- SunOS 8

- The 3Nexus healthcare IT team has a mission to bring safe, efficient, and user-friendly healthcare systems to our customers.

### 3Nexus application solutions for the Healthcare industry:

- Data integrity and consolidation
- Data intelligence and reporting
- HIPAA compliance solutions
- Healthcare IT system development and integration
- System maintenance and enhancement
- System testing and quality assurance

### Your benefits:

- Round the clock development and support
- Global delivery capability that provides scalable resources, reduces costs, and mitigates risk
- Flexible access to highly skilled healthcare IT professional and industry experts
- Partnering solutions whose mission and vision aligned to yours

3Nexus can develop, manage, reengineer, and test your financial applications via our proven global delivery model. Our experience in tailored application for trading, multi-channel banking, accounting, and securities processing enable us to help you achieve higher level of performance and maximize your ROI.

## ■ Equity Trading Application

Apply trading algorithms on US and Canadian equity markets including NYSE and NASDAQ.

Integrate with large Electronic Communication Network (ECN) including ARCA Book, ARCA Direct, NDAQ Book, NDAQ Order, RASH Order, NYSE Quotes, NYSE Openbook, BRUT Book, and BRUT Order.

Apply trading protocols including FIX (4.0 and 4.2), RASH, ARCA Direct, SoupTCP, OUCH, ITCH, MoldUDP, and NYSE Quotes

Provide cross platform client/server trading system. Accessible through Windows and Mobile clients.

Enable users view real-time trading progress or stop and start trading while the transaction is running.

Provide trading analyzer and risk manager based on live market data.

Display visual business intelligence on market data. Advise traders on analysis results.

Support clustered servers and optimized algorithm for heavy trading loads.

### ⌘ Technologies ⌘

- VB.NET
- .NET Framework 1.1 and 2.0
- .NET Compact Framework 3.0
- C on Linux (GCC)
- PHP and MySQL on Linux environment
- RRD Round Robin Database, a specialized database package for storing time series data and draws the data onto graphs when the grapher asks it to
- Debian Linux
- Windows Mobile 5.0
- EasyLanguage and MQ4 / MT4

## ■ FXSimPro (Forex Simulator Professional) Solution

Enable professional traders best-in-class analytical tools to make informed investment decision

Build trading skills for newbie traders on the Forex market. Provide training sessions management

Provide rich analytical graphics including Trendlines, Horizontal Lines, and Fibonacci Retracement

Display a set of custom DK21, DK3 and many common trading indicators

Utilize Play Back simulator with Sessions selection and Acceleration Options to practice and learn from the past data.

Enable trading simulator to practice and predict results using Order Entry Simulator

Perform data collection using TradeStation and Trading Statistics Tracking

Provide web-enabled user account management, account balances, usage statistics, and system configuration.

Manage online trading news conten

### ⌘ Technologies ⌘

- VB.NET
- .NET Framework 1.1
- Windows Application
- ASP.NET
- ASP.NET Web Service
- SQL Server 2000

## ■ Algorithmic Pairs Trader Solution

Apply trading algorithms on US and Canadian equity markets including NASDAQ, CME

Analyze trading opportunity. Determine how often pairs of instruments diverge/converge and by how much

Receive data from NEXA, analyze and give profitable trading models

Perform Buy/Sell order placement automatically or manually according to given trading model for equity and future stock

Graph online charting with realtime data to demonstrate the best solution for trading

Integrate with large Electronic Communication Network (ECN) including Pacific Stock Exchange, primary exchange NASDAQ Global Select, CME E-mini, NASDAQ Total View Book, CME E-Mini book

## ⌘ Technologies ⌘

- VB.NET 2003
- .NET Framework 1.0
- StockChartX
- C on Linux (GCC)
- Multicast/UDP
- TCP/IP

- 3Nexus is committed to bringing innovative solutions through deep understanding of the financial industry operation and technology. Our experience ranges from commercial trading solutions to government enterprise financial workflow systems.

### Our application solutions for the Financial Services and Trading industry

- Trading and analytical application development
- COTS integration
- Work-flow based data processing
- Back-office accounting application
- Financial Services IT system development and integration
- Re-engineering and consolidating legacy systems
- System maintenance and enhancement
- System testing and quality assurance

### Your benefits:

- Shorter time to market. More competitive advantage
- Lower cost on product development and maintenance
- Strong expertise in international trading and financial services domain
- Ensured achieving of measurable results including Service Level Agreement (SLA) or Performance Incentive (PI) targets



# Application Solution for Retail and Restaurant Chain Industry



In today fierce market competition, retail corporations must continually control cost, optimize operational efficiencies, and strengthen supply-chain and customer relationships for competitive advantage. 3Nexus can help you analyze your current operation and enable you to realize your latest and greatest vision within a short period of time.

## ■ Restaurant and Chain Management

Our touchscreen restaurant management application supports the operation of restaurants, coffee shops, and bars. The system allows service management, accounting, kitchen processing, warehouse management, business intelligence reporting, and more.

### Service Management

- ◆ Manage tables, orders, reservation, time waiting, and promotion within the restaurant. Ensure timely services provided to customers.
- ◆ Manage menu and pricing
- ◆ Manage delivery scheduling and customer information

### Accounting

- ◆ Track customers and partners in-bound and out-bound invoices
- ◆ Manage employee's salary and benefits

### Kitchen

- ◆ Update order and progress
- ◆ Warning for out of stock
- ◆ Estimate purchases and sales amount

### Inventory

- ◆ Enable supplier relationship management
- ◆ Manage inventory for in-stock, surplus, or exchanged products

### Business Intelligence Reports

- ◆ Provide intelligence reports on multiple functions including employee management, order status summary, supplier-chain management, and etc.

### Admin

- ◆ Manage employee contribution
- ◆ Maintain the look and feel of the system
- ◆ Manage users
- ◆ Archive, and restore
- ◆ Enable security and roles-based management

## ⌘ Technologies ⌘

- .Net
- XML
- Developer Report

- LITS framework and library
- DBMS compatible with MS SQL, Oracle, My SQL, and Access.

- 3Nexus can define and optimize your business application systems. You will experience improved business in-store, on-line, and through mobile channels.

### 3Nexus application solutions for the Retail and Restaurant Chain Industry:

- Data warehousing and cleansing
- Enterprise infrastructure analysis and development
- Supply chain optimization
- Customer and vendor relationship management
- Workflow-based application development



### ■ Enterprise application development

We help you to streamline your business operations by building and enhancing robust, flexible and modernized systems. Whether you need to re-engineer a portal, integrate the new environment with your legacy application suite, or implement a brand new SOA infrastructure, we are always available to assist in realizing your project. With our strong presence in the US and Vietnam, we provide you options for the best mix of top-notch US experts and our highly skilled engineering resources in Vietnam.

### ■ Mobile, Wireless application development

The worldwide mobile communications market is growing at an exponential rate with hundreds of millions of mobile devices being deployed every year. To stay ahead in the competition, communications device manufacturers and mobile telecom operators must provide personalized functionalities in the handheld devices to the end user community. With 3Nexus along your side, you can develop best-in-class products and integrate them efficiently into user platforms to provide best experience to them in mobile and wireless communication. Our Mobile, Wireless and Embedded Software team, highly specialized and skilled in mobile technology and applications, work in collaboration with you to architect and customize your products and solutions.

### ■ Database Performance Modeling and Tuning

Our Network, Database and System Architecture team use analytic modeling, simulation of different dimensions as well as industry rules of thumb, measurement and benchmarking. The simulation dimensions could be anything depending on each client's need. Some common dimensions are passive resources, user load generation, usage load generation, functional verification, network or communication protocols, or event scheduling.

### ■ Database Development and Consolidation

3Nexus database development services include database requirement analysis, performance objectives, database definition, reporting requirement, and user interfaces. Our database consolidation services improve your capability to integrate data into your systems from heterogeneous sources such as relational databases, XML, message-oriented middleware, etc. Our data architects are specialized in reducing the complexity of client infrastructure, and lowering the required capital investment and ongoing expenses. We leverage the right technology to build powerful consolidated solutions for data cleansing and standardization, normalization, denormalization for the best performance.

For complex system architecture, 3Nexus offers onsite bridge engineering solution. The bridge engineers work side by side with client to support the most critical business demand. They also transfer the knowledge to the offshore supporting team. Bridge engineers could be US data architects or onsite global engineers. With expedited visa process, 3Nexus bridge engineers can arrive onsite in as early as 2-4 weeks after agreement.



## Custom Development Services

3Nexus team, comprising of seasoned engineers and PMPs, can realize your ideas at their initial stage and transform them into world-class products that are ready for market. We focus on every stage of your process including requirement analysis, design, implementation and testing. Our adaptation enables us to modify current architected, designed or implemented projects for further development.

We are committed towards balancing scope, time, resources and cost by applying effective planning. The scope is defined with detail specification regarding the goal to be accomplished, including quality of the end product. Milestones are set with a component to measure progress. Schedule is compressed or fast tracked to meet critical deadlines. Resources are leveled or allocated according to the needs in different phases of the project. Cost estimate, completion, and variance are analyzed to help in proper valuation of the project.

We seamlessly integrate and operate the various components of a development process just like a musical concert. You can choose to be the lead vocalist, an instrument player, a sound mixer, or the audience.



Our wide expertise in Integration Management, Risk Management and Communication Management allow us to undertake software development projects of various dimensions and implement them successfully. Our delivery models are based on strict PMP and CMMI best practices. While our Integration Management process allows us to handle change control, defect resolution, and release by repeatable steps, with our Risk Management process we closely monitor and mitigate risks that may derail the project. Our Communication Management empowers us to effectively convey a message to our clients as well as across multiple and complex matrix teams.

In all of our management and delivery methods, we incorporate your ideas and project specifications to bring out the best results for you.

#### Your results are:

- ◆ Significant impact on revenues resulting from scheduled marketability and rapid market penetration
- ◆ Better software quality with application of mature, well-refined QA processes
- ◆ Greater efficiencies in software development process
- ◆ Enhanced scalability and increased economies of scale
- ◆ Improved quality levels for delivering service to customers
- ◆ Lower cost of ownership (TCO) resulting from reduced immediate and downstream costs in terms of development, maintenance and opportunity costs

## Software Quality Assurance Services

3Nexus offers a spectrum of Software Quality Assurance (SQA) consulting and solution services to clients. Our Software Quality Assurance (SQA) includes detecting and preventing software faults. We perform an array of actions like reviewing requirements documents, source code control, code reviews, change management, configuration management, release management and of course, software testing. All of our activities are intended to ensure that the processes and products conform to requirements, standards, and procedures and adheres to the highest QA level. Our quality attributes include functionality, capability, reliability, efficiency, portability, maintainability, compatibility and usability.

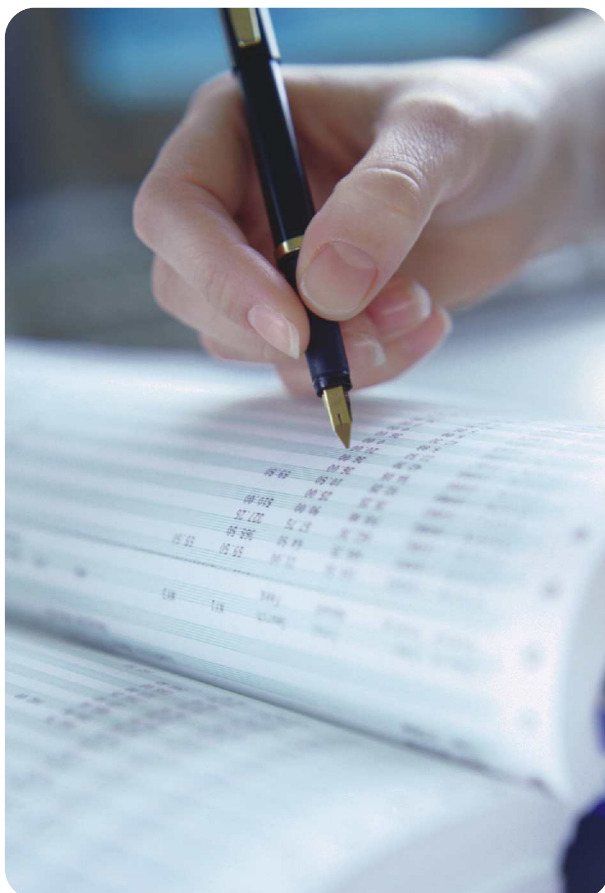
This page is dedicated to introduce you to our testing capability. We can assist you in developing the following test suites and their routine execution:



"At first we thought we may have overdone it. But the results have been dramatic!"

### ■ Unit Test:

Unit test is used to validate the functionality of each unit of a source code or module of a program. Running unit test as the first step in QA offers several benefits in the development process. We incorporate unit test code in your model tier before user interface is developed. We follow an inherent practice of sustained maintenance where we continue using the unit tests to retest the models during our change process to accurately reflect the change in functionality of the units. Each language or technology has a special tool for unit testing. The most popular tools that we use are JUnit and NUnit for J2EE and .Net technologies respectively.



### ■ Web Services Tests:

As enterprise systems often expose components to other interfaces through Web Services, building robust and secured Web Services-enabled components is critical for the quality and repeatability of your system. Rapid testing of Web Services can accomplish this goal. Leave the testing of exposed components of your enterprise system to our good hands. We use aggressive testing tools based on the test objectives. We are skilled in producing functionality, interoperability, security, performance, and vulnerability reports. In order to match the technologies and needs of your project we use a variety of WSS test tools including SOAPSonar and Net Webservice Studio.

### ■ Regression Tests:

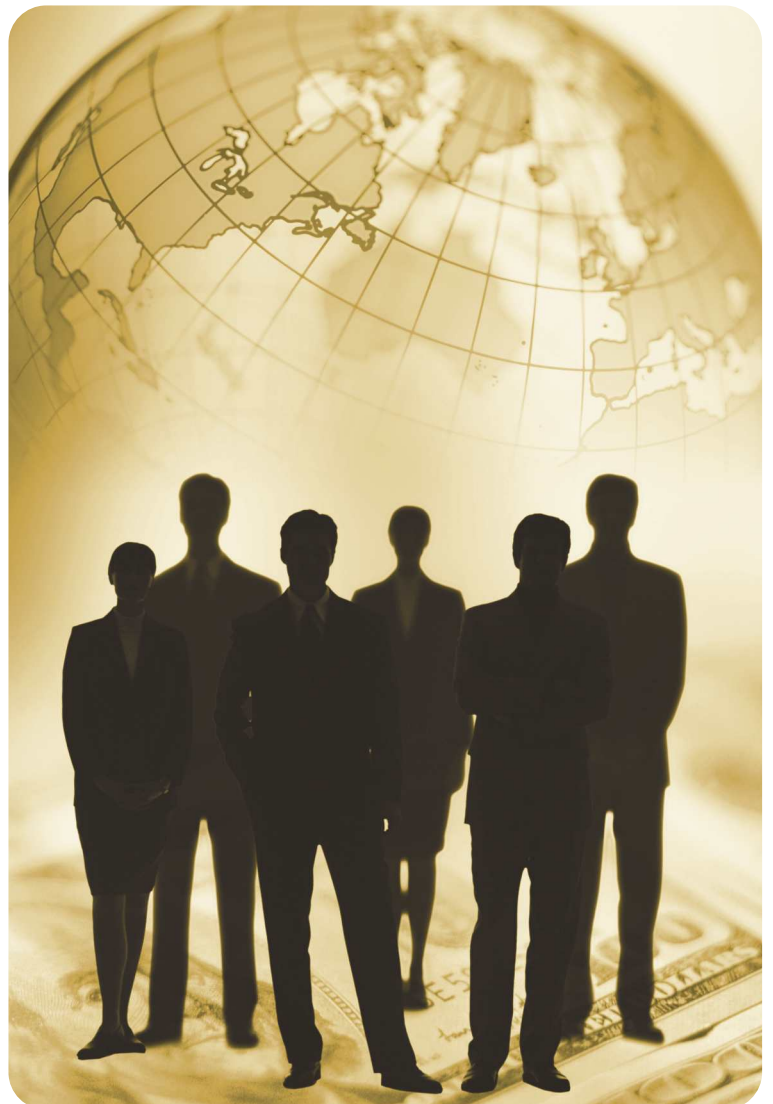
We perform regression test to verify the program accuracy as well as the quality of its output. At 3Nexus we can record thousands of your test cases and generate verified results in daily milestone report. We execute the test suite within a fixed time frame prior to your new release to assure that your code changes have no negative impact on the application.

### ■ Stress Tests:

Stress tests are performed on systems with high usage loads to ensure their robustness and error handling capability. 3Nexus engineers can undertake preparation and execution of stress tests that ensure your system works well even in the most extreme conditions. While 3Nexus has the responsibility to ensure that your system remains fully functional in the normal production and operating environment, you will have the peace of mind knowing that your systems have preparedness for the expected usage loads.

### ■ Performance Tests:

The most critical aspect of an enterprise system is its performance which gets the most attention in sustaining operation for the system. Performance issues are the most difficult problems to address in operation, and if not detected in time may incur higher costs due to remediation. 3Nexus offers you the performance testing and monitoring service for prototype, alpha, beta or release versions of the system. Our performance testing service is created with proven testing approach and appropriate performance testing tools for conducting realistic performance testing of your system. From our structured reports you can get details about the performance and system parameters for each module and use case during different work loads.



## Operation & Maintenance Services

3Nexus offers complete maintenance and support solutions to keep your system and database fully operational. Our preventive, corrective, and perfective maintenance for production-operating application and database ensure that your application and database issues are addressed in an efficient and timely manner. We have wide expertise in sustaining and rolling out different product lines that are currently running in production environment. Not only do we provide corrections or adjustments to your existing defects, our sustaining operation facilities also include development of new feature and add-on components for enhancement of your system. Working with us is a gratifying experience as you will have a well-oiled system that keeps your business running tirelessly. Our highly competent people have maintained multiple releases of commercial and federal enterprise systems in standalone server or clustered environment for millions of end users, and we pledge to do the same for you.

### ■ Preventive Maintenance

The preventive maintenance program of 3Nexus ensures that your application runs without any breakdowns and failures. Our clients have peace of mind knowing that their application and database thresholds are monitored and controlled 24/7 for better preservation and reliability by our dedicated engineers and database administrators. With our rigorous check list and reports by both light-weight and sophisticated monitor agents, your up time is ensured and enforced. Our preventive maintenance provides many benefits in the long run such as enhanced system reliability, decreased system downtime and safety from data loss.

### ■ Perfective Maintenance

Perfective maintenance includes enhancing functionality and making sure the systems can work with newer versions of client-side or server-side third party applications. With perfective maintenance you can improve the maintainability, performance or other attributes of your application to a great extent. The perfective maintenance program of 3Nexus includes various modifications, insertions, deletions, extensions and enhancements intended to make the application meet the evolving and/or expanding needs of the user. Together we can charter small or large projects for their functionality enhancement. We also release wiki, guideline, policy, and client side application matrix for your user communities.



### ■ Corrective Maintenance

3Nexus corrective maintenance program is designed to ensure that you do not lose much time and overall productivity when your system or database faces any problem. Our corrective maintenance involves testing, measuring and adjusting to correct a fault or defect. 3Nexus engineers can work with your technical support team to perform need analysis for understanding your customers' issues. Once we reproduce the issue on our test server or on the client's server, our engineers will implement utilities to correct inconsistent data, analyze root cause, and implement hot fixes, service packs, or application packs.

3Nexus

## Customer Engagement Models

We work with you to develop a business model that fits well for each individual business demand. Many clients have found our models work well for their business. Many would like to mix them or add parameters to control risks and rewards. Please do not forget to ask about our cost analysis. Our clients find the analysis customized for their unique business demand very helpful.

- ◆ On-site Resource Augmentation
- ◆ Offshore Dedicated Center
- ◆ Fixed Price/Fixed Time
- ◆ Time and Materials
- ◆ Build-Operate-Transfer (BOT)
- ◆ Modularized Hybrid

### ■ On-site Resource Augmentation

3Nexus technical or project management teams can work at the client's site for requirement analysis, system deployment, business process observation and learning. This approach helps 3Nexus resource and client to build rapport and support for one another, making the collaboration more effective. The model is also used to build a bridge for the engineering team that will then transfer the knowledge to a larger Vietnamese team supporting the client.



### ■ Offshore Dedicated Center

This model is similar to the Time and Materials in term of billing method. However, this will benefit clients with long term outsourcing program by lower cost and higher employee retention rate. The client is provided with dedicated resources that work exclusively for the client. Client has complete control of the tasks they would like 3Nexus consultants to do. The consultants could be software engineers, database or network admin, quality assurance engineers, and/or project managers.

### ■ Fixed Price/Fixed Time

Our clients are assured of project completion at a fixed price and a fixed date for delivery. Project scope must be clearly defined. Deliverables, costs, and schedule must be well documented. 3Nexus provides strong project management to ensure the project meets the quality within budget and schedule.

With this approach, our clients can save tremendously on project management cost at reduced risks of overall cost and schedule. Time and Materials

3Nexus provides highly competent consultants to work on client's projects. Though cost, schedule, and scope constraints are well managed and controlled, there is flexibility in balancing these factors to achieve the client's business objectives. In this model, clients and 3Nexus resources extensively collaborate together for the common goals. Clients pay periodically for the time and materials that 3Nexus resources spend on its clients' projects.

### ■ Time and Materials

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### ■ Build-Operate-Transfer (BOT)

Clients interested in having a subsidiary entity in Vietnam can choose this approach. First 3Nexus builds up a team that proves to perform and operate the client's business efficiently. Once the team efficiency level is well established and it can independently operate with minimal supervision from 3Nexus, we will transfer the ownership and management to the client.

This model comprises of three parts:

**Build:** 3Nexus establish the offshore team with inputs from client.

**Operate:** 3Nexus and client collaborate to build up the business skill-set for the offshore team to efficiently operate the client's business.

**Transfer:** 3Nexus transfer the ownership and management of the well established offshore team to the client.

### ■ Modularized Hybrid

Our clients reap the advantage of this hybrid model of the Fixed Price/Fixed Time and Time and Material approaches. While the Time and Materials engagement will provide the opportunity for the clients and 3Nexus to develop detailed requirement specifications and project plan, the Fixed Price/Fixed Time engagement will assure their critical delivery date within their predefined budget. Clients have precision and flexibility in mixing cost, risk, and control with respect to each stage or task of an implementation.

# Project Overview

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Industry	Software Provider
Solution	Firewall Software Quality Assurance

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Technologies	Strong knowledge on TCP/IP protocols suite and relating protocols/areas: HTTP, FTP, DNS, DHCP, VoIP, etc. Layer 2-7 networking Routing: OSPF, RIP, BGP Networking Management: SNMP
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Engagement Model	Offshore Dedicated Team
Efforts	30 engineers

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Industry	Software Provider
Solution	Enterprise Content Management System

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Technologies	Net Technologies: ASP.NET, Web Services, Java Applets Programming Languages: C#, Java Database Server: MS SQL 2000 Application Server: IIS 6.0
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Engagement Model	Fixed Time
Efforts	150 man-months

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Industry	Healthcare
Solution	Remote Healthcare Consulting System

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Technologies	Programming Languages: C# Net Technologies: Client-Server Database Server: MS SQL 2005 Application Server: IIS
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Engagement Model	Fixed Price for Iteration
Efforts	80 man-months

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Industry	Banking and Finance
Solution	Payment and Billing System

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Technologies	Programming Languages Java, J2EE: EJB, Servlets, JSPs, XML WebServices, JavaScript, HTML Database Server: IBM DB2 8.1 Application Server: IBM WebSphere 5.0
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Engagement Model	Time and Materials
Efforts	120 man-months

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Industry	Education/ E-learning
Solution	Integrated E-learning Solution

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Technologies	Platform: Java 5, J2EE Technologies: Spring Framework 2.0.1, Spring Web Flow 1.0.1, Hibernate 3.2, AJAX/DWR, JavaScript, Crystal Reports Database Server: MSSQL 2000, MySQL
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Engagement Model	Offshore Dedicated Team
Efforts	48 man-months

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Your Results. Our Commitment.



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