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EDUCATION

STONY BROOK UNIVERSITY

B.S. in Computer Science
May 2002 | Stony Brook, NY

SKILLS

SOFT SKILLS

Teamwork
Leadership
Problem-solving
Communication
Attention to detail
Adaptability
Mentorship

STRATEGIC

Clean Code
Domain Driven Design (DDD)
API Design: REST/Hypermedia
Microservices/Architecture
Agile: Scrum/Kanban
User Story Writing/Decomposition
Continuous Integration/Deployment
Design Patterns
Test Driven Development (TDD)
Functional Programming
Extreme Programming (XP)

PROGRAMMING/TOOLS

Proficient:
Java • Spring • Hibernate • SQL
JavaScript • TypeScript • HTML
React/Redux • Groovy • Spock
JSON/HAL • Sonar • Jenkins • GIT
ActiveMQ • Gradle • Jest
Familiar:
CSS • Scala • NoSQL

UNIFOCUS AWARDS

2011 Growth and Learning
2009 Team Excellence
2008 Growth and Learning
2007 Innovation

EXPERIENCE

UNIFOCUS | Principal Application Architect

August 2006 - Present | Denver, CO

Drive the ability to efficiently and expertly create robust and maintainable product for 7 teams/45 staff located in the US, India, and Croatia.

- Facilitate professional development of engineering and continue evolving the culture into a growth-oriented mindset.
- Liaison between application development and architecture to ensure product infrastructure development is properly prioritized, implemented and delivered.
- Recommend, evaluate, and oversee the implementation of toolsets, processes, or other technologies that directly impact product development.
- Work with teams to design/train/advise/code on major technical design processes and initiatives.
- Liaison between development and security/devops teams to ensure code analysis is being performed and reacted to accordingly.

RECENT PROJECTS

GRATUITY - DIGITAL TIPPING | Principal Application Architect

Java, Spring, React, SQL | Teams: India, US

Provide a cashless option for hotel guests to tip employees in order to increase employee satisfaction and retention.

- Analyzed requirements to create context map and visualize integration points using Domain Driven Design techniques resulting in two new bounded contexts.
- Review UX designs to determine technical requirements and flow.
- Design system to integrate with existing Tip Pooling features as well as future planned 'direct to employee' and 'bill to guest folio' options.
- Negotiate, compromise, and prioritize initial feature set to ensure delivery of working product for demo and pilot phases.
- Review and select payment processing solutions. Review and select integration options to reduce PCI compliance risk.
- Work with architecture and platform team to establish infrastructure, security, and delivery pipeline requirements.
- Pair program and review code for defects and standards.

SONAR OWASP MITIGATION | Principal Application Architect

Java, Sonar, Gradle | Teams: US, India, Croatia, Architecture

Use static code analysis tools to target known OWASP vulnerabilities across all projects leading to a 90% reduction in targeted vulnerabilities through the first phase.

- Work with architecture team to update standard Gradle builds to include Sonar analysis.
- Prioritize detected issues with Security team.
- Research and train team leads on mitigation techniques for prioritized items.
- Work with project planning to schedule mitigation work in monthly time allotments for each team.
- Track and report progress of initiative to Security team.

RECENT PROJECTS - CONTINUED

USER ENGAGEMENT | Principal Application Architect

Java, Spring, React, ActiveMQ, SQL | Teams: India, US

Promote desired user behaviors in order to streamline and improve labor management processes, resulting in higher service quality, employee loyalty and increased business revenues. Press Release

- Analyzed requirements to create context map and visualize integration points using Domain Driven Design techniques resulting in three new bounded contexts.
- Review UX designs to determine technical requirements and flow.
- Analyzed requirement dependencies in order to decompose and prioritize user stories while minimizing bottlenecks.
- Work with architecture team to design and implement Domain Event pub/sub infrastructure using the Outbox pattern to support the applications event driven design.
- Work with architecture and platform team to establish infrastructure, security, and delivery pipeline requirements.
- Facilitate api and event work required from upstream bounded contexts spread across three additional teams.
- Pair program and review code for defects and standards.

RMS MODULARIZATION | Principal Application Architect

Java, Spring, React | Teams: US, Architecture

Modularize the UniFocus 1.7 million line legacy application into microservices using Domain Driven Design and microservice design best practices.

- Research and procure training material for Domain Driven Design and Microservices.
- Create and facilitate developer discussion groups to mentor/train the development staff on required techniques.
- Work with team leads to analyze the legacy schema consisting of 475 tables in order to assign team and bounded context ownership.
- Work with team developers to refactor code into 80+ bounded context modules.
- Work with team developers to establish appropriate aggregate roots to maintain proper transactional boundaries and invariants.

SWING TO REACT CONVERSION | Principal Application Architect

Java, React | Teams: US, Croatia, India, Architecture

Convert legacy Swing UI screens into modularized React applications in order to increase product marketability.

- Research and procure training material for TypeScript, React, and Jest.
- Establish UniFocus coding standards for React/Typescript.
- Work with architecture on infrastructure and tooling requirements around town planning concerns such as common error handling and reporting, localization, and security.
- Create and facilitate developer discussion groups to mentor/train the development staff on required techniques.
- Create wrapper to enable AG-Grid third party tool to meet UniFocus needs for validation, typescript typings, ease of use, look and feel, and support for common grid cell types.
- Provide technical support for teams during conversion of 80+ screens and communication for any technical nuances/patterns to maintain developer productivity.

TIME AND ATTENDANCE | Team Lead, Domain Expert

Java, React | Teams: US

Track employee time, reduce labor costs, and maintain compliance to labor laws and union contracts for over 450k employees around the globe.

- Responsible for all design and code since inception.
- Primary technologies include React, TypeScript, Java, Spring, Hibernate, Spock, SQL
- Lead team of 3 developers and 1 QA
- Physical and mobile time clocks with biometric interfaces, punch rules and restrictions.
- Business rules engine for real time payroll calculations in full compliance with federal, state, corporate and union rules.
- Time card management, attendance point tracking, benefit accruals, payroll interfaces, tip pooling calculation and distribution, overtime and violations alerting.