Josh Knopp

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Engineering Leader ● *NodeJS* ● *AI/ML* ● *DevEx Advocate* ● *Agile Champion*

Summary

Experienced and innovative Technical Director with over 25 years of hands-on development, including with large multinational investment banks as well as small- and mid-sized technical firms. I leverage both technical and soft skills to provide clean, efficient solutions while providing vision and leadership to product teams, which has been useful in a variety of additional roles including Product Owner and Scrum Master.

Director of Engineering   2022 - Present
Q2 Strategies

- Principal hands-on engineer for an emerging AI-based NLP-to-SQL product feature, driving API integration with open-source and proprietary large language models (LLMs)
- Manage and mentor a cross-functional Scrum team in delivery of flagship product at a multinational Fortune 500 financial institution
- Work closely with product ownership and UX designers, partner with external technical teams to fulfill critical data dependencies, and present key milestones to executive committees
- Provide both senior leadership and intensive hands-on development contributions in every sprint, including Angular, Q2DM API development, SQL Server, and Tableau
- Practice servant leadership in the role of Scrum Master
- Perform code reviews, provide technical guidance and architectural guardrails, and foster best practices
- Built blue/green deployment pattern from scratch and integrated into Gitlab CI/CD pipelines and Ansible job templates
- Introduced team to SonarQube and drove 80% minimum unit test coverage for all product increments - Ideated and secured prioritization and funding for a, "AI-as-a-Service" innovation initiative

Senior Vice President; System Architect   2017 - 2022
Bank of America

Senior Architect / Senior Software Engineer
- Ideation, high-level design, hands-on tech lead implementation, and Product Ownership of an enterprise initiative to simplify and streamline the technology change management, resulting in an $8M savings
- Engaged with executive steering committee to secure funding and promote product advancements
- Led development of cloud native/12 factor applications (Java, Spring Boot, Spring Cloud, Spring Cloud Contract, MongoDB, Oracle)
- Mentored cross-functional teams in best practices for full-stack development, unit/integration/ acceptance testing, and CI/CD automation (Test-Driven Development, JUnit, Git, Jenkins, Openshift) - Initiated multiple Operational Excellence objectives to increase process efficiency and employee satisfaction

Product Owner
- Ideated, secured funding, and defined product roadmap for an automated solution to a regulatory need - Managed and prioritized Product Backlog, and authored Features/Epics/User Stories aligned to user personas.
- Collaborated directly with executive steering committee to drive product growth across Agile Release Train

Vice President; Applications Program Team Manager   2014 - 2017

Bank of America
- Designed, developed, and maintained a suite of web applications for internal customers. (Telerik Kendo UI, SQL Server)

- Provided production support and guidance for best practices in full-stack development and related skills/practices. (C#, .Net, MVC, Telerik Kendo UI, jQuery)
- Guided engineering teams on safe practices for working with legacy code. (Characterization tests, breaking dependencies)
- Create, update, and maintain database structures. (Oracle, SQL Server)

Senior Full-Stack Engineer
2013 - 2014
Bank of America
- Developed and maintained a suite of web applications for internal customers. - Provided guidance for best practices in development and source code management. (Adobe Flex, SVN)
- Create, update, and maintain database structures. (Oracle)

Lead Software Engineer
2010 - 2013
Advantor Systems Corporation
- Lead UI developer of a real-time alarm monitoring and access control security suite for clients such as the U.S. military and large corporations. (Adobe Flex, AIR, Java)
- Integrated hardware such as biometric fingerprint readers, signature capture devices, and digital cameras.
- Developed and implemented corporate coding standards as well as leveraging industry-standard frameworks. (RobotLegs)

Web Development Lead / Information Security Manager
2006 - 2010
Amerinational Management Services, Inc
- Managed full software life cycle of rich internet applications through disciplined coding practices. (Adobe Flex, SQL Server)
- Developed components to interface with a variety of third-party APIs, including e-commerce payment applications.
- Responsible for maintaining compliance with PCI DSS (Payment Card Industry Data Security Standards).

End-Of-Day Auditor
2006 - 2008
BankFirst
- Performed data backup procedures and reconciliation of accounts.
- Engaged in troubleshooting for a variety of hardware and software failures.
- Assisted in coordinating and performing IT maintenance tasks.

Software Engineer
1997 - 2001
USAF Research Laboratories
- Developed integrated automation systems for research applications. (LabView, C++)
- Formally documented and reported major milestones for publication in industry journals.

Education

University of Central Florida BS, Information Technology
2004

Skills
Node.js • TypeScript • Angular • Spring Boot • Java • Python

Agile Methodologies • Scrum • Ansible • Continuous Integration and Continuous Delivery (CI/CD)

Licenses & Certifications

Oracle Certified Associate, Java SE 7 Programmer - Oracle

Oracle Certified Associate, MySQL 5 - Oracle

Kendo UI Certified - Progress Telerik

SAFe 4 Certified Practitioner - Scaled Agile, Inc.

SAFe 4 Certified Scrum Master - Scaled Agile, Inc.

SAFe® 4 Certified Agilist - Scaled Agile, Inc.

SAFe® 4 Certified Product Owner/Product Manager - Scaled Agile,Inc.

SAFe 4 DevOps Practitioner - Scaled Agile, Inc.