Josh Knopp

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

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 financial and technical firms. Microsoft Certified in Azure AI Fundamentals. Able to 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, Scrum Master, Senior Frontend Engineer, and Developer Advocate with a focus on enhancing Developer User Experience.

Director of Engineering
Q2 Strategies

Apr 2022 - Present

- 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)
- Design, architect, develop, and maintain operations management software at a multinational Fortune 500 financial institution
- Led key effort to centralize and rationalize 45,000 SOP documents to reduce operational and regulatory risk, impacting 45,000 employees across 1,800 processes and saving many thousands of person-hours
- Manage and mentor a cross-functional Scrum team supporting the Office of the CIO in delivery of flagship product for a Change-The-Bank initiative, with focus on a crisp and engaging user experience
- 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
Bank of America

Apr 2017 – Apr 2022

Senior Architect / Senior Software Engineer / Product Owner

- 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) and system design
- 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

Vice President; Applications Program Team Manager
Bank of America

Oct 2013 – Apr 2017

- 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)

Lead Software Engineer   Aug 2010 – Oct 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. (Java, Adobe Flex)
- 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.

Education

University of Central Florida BS, Information Technology

Skills

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

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

Licenses & Certifications

Microsoft Azure AI Fundamentals - Microsoft

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.

Oracle Certified Associate, Java SE 7 Programmer - Oracle

Oracle Certified Associate, MySQL 5 - Oracle

Kendo UI Certified - Progress Telerik