

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

Apr 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, 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

Apr 2017 – Apr 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) 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

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

Jun 2014 – Apr 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

Oct 2013 – Jun 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

Aug 2010 – Oct 2013

Advantior 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

May 2006 - Aug 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

Oct 2006 – Apr 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

May 1997 – Aug 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

May 2004

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