

Josh Knopp

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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. 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 and Scrum Master.

Lately I have been focusing on developer experience improvements, like implementing a blue/green deployment pattern to simplify and de-risk release activity. I also ideated and am championing an internal innovation effort focused on providing AI-as-a-Service to tech organizations within the enterprise. The goal is to democratize access to tools like on-prem LLMs and feature embedding capabilities via a subscription model.

I am experimenting with some side projects that also center around DX and AI. This has led me to discover some exciting platforms like Pulumi and Nitric while tinkering with OpenAI APIs, as well as interesting case-study projects like MetaGPT and SuperAGI.

Experience

Director of Technology

Q2 Strategies

Apr 2022 - Present (1 year 7 months)

- Oversee product development for the Office of the CIO at a multinational Fortune 500 financial institution
- Drive delivery of flagship product for a Change-The-Bank initiative focused on Operations Process management
- Provide both senior leadership and 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

Dec 2017 - Apr 2022 (4 years 5 months)

Senior Architect / Senior Software Engineer

- 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

Bank of America

Mar 2014 - Dec 2017 (3 years 10 months)

- 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

Bank of America

Oct 2013 - Mar 2014 (6 months)

- 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

Advantior Systems Corporation

May 2010 - Sep 2013 (3 years 5 months)

- 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

Amerinational Management Services, Inc

May 2006 - May 2010 (4 years 1 month)

- 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).



Software Engineer

USAF Research Laboratories

Jan 1997 - Jan 2001 (4 years 1 month)

- 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

1999 - 2004

Licenses & Certifications



Oracle Certified Associate, Java SE 7 Programmer - Oracle



Kendo UI Certified - Progress Telerik



SAFe 4 Certified Scrum Master - Scaled Agile, Inc.

Issued Jan 2018 - Expires Jan 2019

73882862-5716



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

Issued Mar 2018 - Expires Mar 2019

74493430-2365



SAFe 4 DevOps Practitioner - Scaled Agile, Inc.

Issued Aug 2018 - Expires Aug 2019

48160530-4983

Skills

Java • Microsoft SQL Server • MySQL • Scaled Agile Framework • Unit Testing • Microsoft SQL Server • Angular • Scrum • Artificial Intelligence (AI) • DevOps