

Ahsen Jaffer

Tech Lead

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Professional summary

Tech Lead with over 25 years of extensive expertise in software engineering, specializing in cloud solutions and Java technologies. Expert in designing scalable and reliable systems, leveraging microservices to drive innovation and enhance performance. Committed to advancing collaboration and technical excellence, delivering cutting-edge solutions in dynamic environments.

Employment history

Senior Software Engineer, 2019 - Present

Amazon Inc., East Palo Alto, CA

- Designed AWS Connect's region isolation for resilience, enhancing system reliability during partial failures.
- Authored strategy for AWS Connect's communication channel expansion, guiding technical vision.
- Developed distributed cloud architecture for effective failover and routing during partial failures in AWS Connect.
- Automated load testing to identify and resolve service bottlenecks, optimizing performance.
- Integrated multilingual support to enhance mobile search capabilities, broadening user reach.

Staff Engineer, 2011 - 2019

VMware Inc., Palo Alto, CA

- Developed UI components for vSphere Client using Angular and Java Spring, enhancing user experience.
- Created VMware-wide feedback platform, improving user insights through integrated UI components.
- Created a standalone configuration service for the vSphere Web Client using NodeJS on Linux.
- Led critical security enhancement of vSphere Web Client bundle deployer, resolving JMX RMI vulnerabilities (1) while achieving 30% faster server boot time
- Optimized Virgo server performance (2) through memory footprint reduction of 35%, directly enhancing system stability

Senior Developer, 2007 - 2011

Chariot Solutions, Fort Washington, PA

- Developed Ruby/Rails systems boosting search and scheduling efficiency, enhancing user experience.
- Engineered Java/Spring API for European services integration, ensuring seamless client operations.
- Designed high-volume data processing calculator, optimizing performance with Spring Batch.
- Collaborated with cable provider on Java SOA application, developing a reporting feature.
- Implemented continuous testing with Maven, Cruise Control, achieving reliable software delivery.

Application Developer V, 2003 - 2007

Harleysville Insurance Company, Harleysville, PA

- Led payment and reserves processing project, enhancing claim efficiency.
- Managed release and iteration planning, optimizing workflows with Team Foundation Server.
- Developed web services with WebMethods, improving data retrieval from SQL Server.
- Designed application with Struts and Spring, enhancing client experience with Ajax.
- Implemented Hibernate for O/R mapping, ensuring seamless XML data translation.

Early Career, 2000 - 2003

- Designed Java app for 130+ agencies, enhancing backend communication via WebSphere.
- Led MVC framework design using JSP, Java Beans; improved system interface efficiency.
- Mentored developers, leading offshore team on ASP/Visual Studio HR software project.

Education

Self-Driving Car Nanodegree, 2018

Udacity

Master of Science in Software Engineering – CS, 2012

Drexel University, Philadelphia

BS in CS, 1998

GIK Institute of Engineering Sciences and Tech., Pakistan

Skills

Cloud Architecture, Microservices, TDD, Java EE, Spring, Software Testing, Project Management, System Design, Performance Tuning, API Development.

Additional information

Patents

Location-aware calendaring / US 20140058778 A1

Awards and Recognition

- Won the first prize for a company wide Hackathon: using ML to train models that can detect hand drawn figures and converts them into deployed code with UI (2018)
- Presented research paper on user-feedback framework at VMware's R&D Innovation Offsite (2016)
- Awarded Best peer-reviewed research paper VMware's R&D Innovation Offsite (2012)
- Upsilon Pi Epsilon, Honor Society, Drexel University (2009)
- Co-chair of the Agile track at Emerging Technologies for the Enterprise Conference (2008-2010)
- 'Good people to know' Awards (2006, 2007)
- Dean's Honor List, GIK Institute of Engineering Sciences & Technology (1997)

Leadership Roles

- Vice President of Public Relations at Harleysville's Toastmasters Group (2007)
- Secretary at Agile Philly (2007-2008)

Hackathons

- Using LLMs to automatically summarize conversations from meetings, enabling users to quickly find and retrieve important information (2024)
- Automate the cataloging and retrieval of important information from Quip, wiki etc. (2023)
- A tool to help surface organic discussions within code reviews, to support collaboration in a remote workplace (2022)
- A tool that enables remote workers to engage in informal conversation and connection, bridging the gap between virtual and in-person interactions. (2021)
- Shopping bot allows customers to easily find and make purchases by sharing a picture on a chat, leveraging Amazon's visual search (2020)
- Expert Finder: a tool that identifies top experts for code packages and displays a developer's expertise, enabling users to easily find the a subject matter expert (2019)
- Using ML to train models that can detect hand drawn figures and converts them into deployed code with UI (2018)
- SDK for outgoing Webhooks for the vSphere Web Client (2016)
- Usage graph within vSphere Web Client (2014)
- Flex side data caching within vSphere Web Client (2013)

Links

(1) VMware Security Advisories -

<https://support.broadcom.com/web/ecx/support-content-notification/-/external/content/SecurityAdvisories/0/23482>

(2) Improve scalability of StandardBundleInstallArtifact - https://bugs.eclipse.org/bugs/show_bug.cgi?id=424872