

Summary

Experienced engineer with a focus on backend services (mostly in Java). As an individual contributor, I have a knack for finding and fixing performance issues by not only looking at individual components but at the system level. As a manager and team lead, I mentor junior developers in technical and non-technical aspects of being a software engineer.

Education

Master of Science, Computer Science Boise State University
Thesis: Java Bindings for Parallel Virtual Machine (<http://cs.boisestate.edu/~amit/research/pbj/>)
Distinguished Graduate Student Award
Bachelor of Science, Computer Science Boise State University

Professional Experience

Oracle Remote 11/2020 to 12/2021

- Principal Member of Technical Staff
 - Scalability improvements for application deployment orchestration system
 - Refactor code to remove un-necessary code
 - Streamline business logic
 - Improve tracking of inflight deployments
 - Created process to track multi-region deployments
 - Improve testing process
 - Cleanup onboarding documents
 - Mentor junior developers

ClickBank Boise, ID 9/2019 to 10/2020

- Senior Software Engineer
 - Migrate existing monolithic app to microservices
 - Used Java, React, and GraphQL.
 - Deployed to Kubernetes cluster in AWS.
 - Add new functionality for various strategic initiatives.
 - Created REST APIs using Spring Boot to support new business functions
 - Interacted with various 3rd party libraries such as PayPal API.
 - Participate in interviews and hiring of software developers
 - Improved interview and onboarding processes

Clearwater Analytics Boise, ID 10/2012 to 8/2019

- Architect – Scalability and Performance
 - Researched and prototyped distributed database and cloud-based technologies
- Manager - Engineering Operations Division

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- Proposed division to streamline system operations.
- Help align system operations and development into more of a dev-ops relationship.
- Started broader adoption of containerization (Docker/Kubernetes)
- Personnel reviews, budgeting, responding to audit requests.
- Team lead - ETL Service Provider Team
 - In addition to roles and responsibilities as a Senior Software Engineer:
 - Train developers on various performance and architecture issues including designing fault tolerant, scalable, highly available systems.
 - Transitioned junior team members from being mere coders to stake holders in the product.
 - Work with team members and management to provide career growth paths for team members.
- Senior Software Engineer - ETL Service Provider Team
 - Develop and maintain software for coordinating ETL (extract, transform, load) batch processing including 24x7 production support.
 - Liaison between development and various operations groups
 - Capacity planning for hardware provisioning and procurement
 - Re-architected existing solution for better resource utilization, reliability, and issue diagnosis.
 - Provided a 3x throughput increase on same hardware with better scalability.
 - Implemented a phased rollout of new architecture to lessen the impact on customers and other development teams.
 - Reduced production outages from a weekly occurrence to less than quarterly
- Software Engineer - Accounting Team
 - Diagnose and remedy performance issues around CPU, memory, and database usage.
 - Investigate various alternative storage technologies as a possible MSSQL replacement.

Hewlett Packard

Boise, ID

1/2001 to 10/2012

- Software Engineer - Digital Front End for Indigo Press
 - Feature enhancements and defect resolution
- Software Engineer - Web JetAdmin
 - Migrated from C/C++ service to a C# service for printer management.
 - Architected high-performance transactional database persistence layer.
 - Provided database and .Net mentoring to other team members.
 - Diagnose and mitigate performance and scalability issues.
 - Developed multiple machine testing cluster for scalability testing.
 - Researched and prototyped cloud-based deployment options.
- Software Engineer - Print Server Appliance
 - Worked on management service to plug into Web JetAdmin printer management software.

HostPro/Micron Internet Services

Boise, ID

6/1999 to 1/2001

- Software Engineer
 - Introduced use of the Java over various web technologies.
 - Replaced CGI and proprietary scripting language with JSP and Servlets.
 - Reduced maintenance so more features could be developed.
 - Lead for Registration System Re-architecture
 - Redesigned registration system to be more robust and scalable.
 - Improved uptime from days to weeks

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- Allowed new features to be added including batch registrations and an API for registrations from partners.
- Head architect for Message Oriented Middleware Implementation
 - Allow for better scalability and integration of various processes.
 - Work across various groups acquired via mergers/acquisitions.

Skills

- Programming Languages
 - Java
 - C#
 - Go
 - C/C++
 - JavaScript
 - Various Scripting Languages
- Database Servers
 - MS SQL Server
 - MongoDB
 - MySQL
 - PostgreSQL
- Miscellaneous
 - Tomcat
 - Servlet/JSP
 - REST
 - Virtualization
 - RabbitMQ
 - Message Oriented Middleware/Event driven architecture
 - Docker
 - Kubernetes
 - Microservices