Arun Nair

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Professional Summary

- 12+ years' experience of leading enterprise-wide implementation with a background in Software Engineering and Control Systems, using Agile methodology in the Transportation/ Railroad, Logistics, Payments and Insurance domains.
- Managed cross functional engineering teams by providing guidance in design and development of near real time distributed systems using Azure cloud computing, and microservices based architecture.
- Spearheaded multiple projects by being in the forefront of System design, development, integration, and test.
- Transformed client experience on products that initiated new projects for the organizations.

Experience

Truckstop
Software Engineering Manager (June 2021 - present)

- Participated in backlog refinements with the development team, Scrum Masters and Product owners.
- Introduced maturity standards and review process for microservices.
- Created a Release management cadence and roadmap to help improve quicker service delivery.
- Worked with a team lead to create a technical outcomes chart in order to forecast and prioritize technical debts.
- Set up 1:1's with team members to help mentor and create career growth opportunities.
- Set up an OGSM model to execute operational reviews for devOps.
- Worked with Solution Architects and Lead engineers to create cookbooks for Frontend and Backend chapters.
- Coordinated execution of locust tests to ensure services are meeting performance standards.
- Worked with Solution Architects with Product Inception discussions for initial T-shirt size estimates.
- Created processes to ensure faster service deployments to Production.
- Conducted hiring interviews and created an effective screening template to help hire highly qualified technical talent.
- Created a technical interview panel for candidates consistent interview experience.
- Created an onboarding checklist for new hires.
- Coordinated with Platform architects to ensure services are up to OpenApi standards.

Tools: REST API, C# .Net 6, Kafka, AWS, gitlab, Node, Angular, GraphQL

Wabtec Railway Electronics (GE Transportation)
Software Development Manager (July 2020 – June 2021)

- Responsible for designing and delivering mission and business critical train control systems and back-office systems for various Class I railroads across North America.
- Worked with product managers to put together product, quality improvement, and KTLO roadmaps for multiple product lines.
- Visualized Proof of Concepts with Senior engineers and Architects and provided feedback on System Requirements review with the customers.
- Experienced interviewing and hiring quality candidates.
- Maintained and updated System Architecture documents for various applications.
- Created Software design templates, and Use Cases for engineers to follow.
- Worked with customer support and Project Owners to help prioritize any defects and backlogs over multiple projects.
- Created KPI dashboards with Scrum Masters to assist in sprint progress and monitor roadblocks.
- Conducted 1:1s with direct reports and provided regular feedback, coaching for career growth and created growth plans.

Tools: Visio, C#, Miro, Agile Scrum, Azure, React

Lead Software Engineer (August 2017 – July 2020)

- Reviewed change requests to existing programs and provided estimated delivery dates.
- Streamlined the Code review and release process to improve quality of the deliverables.
- Helped set up a Continuous Integration (CI) pipeline using Azure DevOps pipelines and authored build definitions.
- Designed Redis as a message broker and master to slave replication of data between application servers.
- Proposed Quality Improvement plans to help remediate and reduce technical debt.
- Designed, developed microservices architecture for some monolithic services for high availability in docker containers.

- Served as a Subject Matter Expert (SME) across multiple projects and held system requirements and design discussions with customers for feature enhancements and solution engineering.

Tools: C#, REST API, ReSharper, Git, Azure DevOps, Redis, React, Node.JS, Microsoft SQL Server 2019, Visual Studio 2019, and Visio

Senior Software Engineer (August 2014 – July 2017)

- Modified depth first search and other graph-based algorithms to develop routing and path finding logic.
- Implemented CRC checksum to validate data set integrity between two decoupled office systems and triggered the need for synchronization with Positive train control.
- Adapted design patterns to resolve complex issues.
- Integrated locomotive onboard software with office using Interoperable Train Control messaging.
- Incorporated RabbitMQ for asynchronous messaging between applications.
- Facilitated Electronic Data Interchange for interoperability between railroads.
- Implemented Geofencing for accurate train positioning.
- Designed AD authentication and TLS for application security.
- Implemented a system management platform using Node.JS.

Tools: C#, WPF, Microsoft SQL Server 2014, Jenkins, Git, Azure, VSTS, RabbitMQ, Node.JS, Redis

Geico
Software Engineer (February 2012 – August 2014)

- Computed back-end service application for customer requests, updating information.
- Maintained Service oriented architecture using JAX-RS API for RESTful Web Services.
- Utilized frameworks such as Hibernate for persistence and application layers.
- Used Hibernate for object-relational mapping.
- Reinforced using Agile Development methodology of software development.
- Good experience working with AWS EC2 for scalable and multiple application instances.
- Involved in database design on MySQL and development of different database objects containing functions, triggers, and store procedures.

Tools: Java, Swing, Hibernate, MySQL, jQuery, AWS EC2, JUnit

John Deere
Software Engineer (March 2011 – January 2012)

- Developed automated test scripts for testing of web applications using Selenium and Java.
- Implemented test application to validate data migration jobs across multiple data stores.
- Integrated test scripts into Hudson for daily build testing and to publish test results.
- Unified test plans and test cases based on Business and system requirement documents.
- Improved bug reporting by providing a test execution matrix and a requirement to test case traceability matrix in JIRA.

Tools: Selenium, Java, IBM DB2, JIRA, Hudson, Eclipse IDE

Education
- MS Electrical Engineering , San Jose State University
- BS Instrumentation Engineering, University of Mumbai

Certification
- AZ-900: Azure fundamentals

United States Citizen