Saravanan Rajagopal

Sr. Software Engineering Manager @ Globallogic | Cloud Development, AI Integration | Talks about Platform Tech, Software Development, Reliablity, LLMs |
Duluth, Georgia, United States

Summary

As an Engineering Manager at Miovision, I lead a cross-functional engineering team that develops cloud-based traffic signal priority/ preemption products. I have over 14 years of experience in software development management across multiple industries, including smart city infrastructure, supply chain and logistics, pharmacy, and hospitality.

My core competencies include platform service development, AI integration, process and standard improvement, test automation, and agile methodologies. I am passionate about driving technological innovation and delivering high-quality software releases that meet customer needs and expectations. I have a track record of achieving remarkable results, such as enhancing turnaround times by 45%, reducing waste by 20%, increasing test coverage by 20%, and ensuring 95% on-time delivery of cloud releases.

Experience

GlobalLogic
Senior Engineering Manager
July 2024 - Present (1 year)

Miovision
Software Engineering Manager
September 2020 - July 2024 (3 years 11 months)
Oakdale, Minnesota, United States

• Leadership: Leading a cross-functional software development team of 13 people, including full stack developers and testers responsible for the development of SaaS products and managing legacy applications.

• Performance Optimization: Implemented advanced caching strategies using Redis, and optimized data storage and retrieval processes which cut down latency by 80%, to ensure our applications are fast, reliable, and scalable.

• Infrastructure Migration: Led a strategic migration of our backend infrastructure from a Neptune-based graph solution to an AWS RDS (Aurora) solution, yielding a remarkable 30% improvement in performance.

• Cost Reduction on AWS: Introduced several cost-saving initiatives on AWS, significantly reducing operational expenses of AWS accounts by 40%, while maintaining, and often enhancing, the quality and performance of our services.

• Delivering Results: Consistently achieving software delivery milestones, with 85% of releases launched on schedule.

• Code Review: Conducted code review sessions on a regular basis and ensured

software quality.

• Predictive Modeling: Successfully led deployment of a Random Forest Regression model to accurately calculate vehicle positions using historical data,

demonstrating our ability to leverage data science in practical, impactful ways.

• Internal Bots: Integrated all internal data sources like confluence, JIRA, Slack,

Snowflake and created a bot which effectively summarizes information using LLMs and effectively responds to user queries. This drastically improved the internal knowledge ecosystem.

GlobalLogic
Lead Software Engineer
October 2018 - September 2020 (2 years)

• Technical Leadership and Strategy: Led a multidisciplinary development team,

guiding the strategic use of Java, design patterns, databases and message queues

to build robust, scalable systems. Utilized Chaos Engineering principles to proactively identify and address potential system vulnerabilities, ensuring the robustness of the Walgreens renewal project's infrastructure.

• Risk Mitigation through FMEA: Directed the technical execution of Failure Mode and Effects Analysis (FMEA) within the High Availability Disaster Recovery (HADR) framework.

• High Availability Systems Design: Achieved an exceptional system availability rate of 99.9% across

Ciber Global
Software Development Engineer in Test (Lead)
October 2016 - October 2018 (2 years 1 month)

Client: Hilton

Project: Micro services Implementation Testing

● Involved in Continuous Delivery and Integration testing of RESTful microservices on Cloud in Dev Ops model.
● Implemented TDD and shift left approach using mock servers which improved the software delivery times by 35%. Reduced bug occurrence rate through rigorous unit testing and integration testing practices.
● Played a key role in designing a testing framework in Kanban Workflow for current project, which works seamlessly with the continuous delivery model. It cut down testing readiness by 5 days for monthly releases.
● Enhanced defect root cause analysis & troubleshooting using tools like Splunk/Openshift.
● Created Step Definitions in Gherkin and ran tests in cucumber framework.

Atos Syntel
6 years 1 month

Software Test Lead
October 2014 - October 2016 (2 years 1 month)
Greater Memphis Area

Client: FedEx

Project: Automation of Common Rate Services Validation Server using a Customized Framework

● Reviewed and developed Test plans, Test cases, Test scripts, and test approach documents for each release.
● Instrumental in implementing enhanced automation framework, setting technical direction for script development, quality assurance & development support.
● Designed and developed a customized framework in UFT which reduced execution time and improved code reusability by 30%.
● Contributed to high-reliability technology releases with thorough testing that helped maintain FedEx's industry-leading sales ranking, market share and customer-satisfaction rating.
● Reported bugs periodically to Test Manager and architected solutions which improved the bug detection rate through Automation scripts by 20%.

Test Engineer
October 2010 - October 2014 (4 years 1 month)

Client: FedEx
Title: Web Services Automation using SOAP UI

• Tested "Fedex.com" Web Services using SOAP UI and automated it. Used Groovy Script for providing customized assertions.
• Implemented data-driven testing for web services by making a JDBC connection and used Data Sink to store web service responses in Excel spreadsheets and databases.
• Performed Regression Testing of web services by using Test Runner in SOAPUI for creating batch files and running in an unattended mode using Task Scheduler.
• Validated SOAP responses by using assertions like XPath, schema compliance, SOAP fault etc.

Grace Autocomponents
Quality Analyst
September 2009 - August 2010 (1 year)
Chennai Area, India

•Reviewed various design diagrams to verify compliance, and made sure that good engineering design practices followed.
•Reviewed subsystem requirements for proper decomposition from system requirements.
•Ensured development and supporting processes (e.g. Configuration Management, ESD) were in place and followed.

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Education

Anna University
Bachelor of Engineering (BEng), Electronics and communication Engineering · (2004 - 2008)