

Darshan Rambhia

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Summary

Full Stack Engineer with extensive experience in designing and implementing scalable AWS/Kubernetes microservices platforms. Successfully led the development of Elsevier's Lighthouse platform, significantly reducing ethics review time and enhancing processing efficiency. Skilled in building enterprise-grade SaaS infrastructure and fostering cross-functional collaboration. Eager to leverage technical expertise and leadership skills to drive innovative full stack solutions.

Experience

Technical Lead, Product, Elsevier

Apr 2020 – Present

- Directed the technical implementation of Lighthouse, an ethics monitoring platform which analyzes 4M+ submissions annually, across all Elsevier journals scanning for 20+ real-time analytical signals.
- Led a distributed team of 5 developers across US, EU, and Indonesia, collaborating with ethics teams, journal managers, editors, and internal data teams to start delivering results within 1 sprint.
- Reduced review time taken by the Ethics team for flagged submissions from months to 15 minutes, targeting 10 min in 2024 and 5 min in 2025.
- Built Lighthouse's API architecture, managed schema design, and presented technical reviews and architectural planning to senior stakeholders.
- Improved devEx by implementing test automation, coding standards, and internal tooling, resulting in higher quality and improved sprint velocity by 15%
- Designed and deployed microservices in Golang, Java, and Node.js on AWS EKS with Kubernetes orchestration and Helm, integrating with PostgreSQL and internal data pipelines.
- Developed modern infrastructure using Docker, GitHub Actions (migrated from Jenkins), NGINX ingress controllers, and Cloudflare DNS/proxy, fully managed with Terraform.
- Developed the Reference Analyzer, an ML-powered citation extraction and metadata enrichment platform, which was adopted across all submission personas (authors, editors, reviewers, ethics teams), improving data accuracy and processing speed
- Implemented the GRE Platform to collect sensitive gender/race/ethnicity data at login, generating annual diversity reports and uncovering bias in editorial decision-making, which was expanded across Elsevier properties.
- Created the Declaration Tool to standardize conflict of interest declarations with a simplified author-facing form, making it a core part of Elsevier's submission platform and a standard across journals, which streamlined the submission process.

Software Engineering Lead, Amdocs

Mar 2017 – Apr 2020

- Engineered project implementation to reduce duplicate payment incidents through backend architecture and process changes, directly improving revenue and customer experience.

- Architected multiple solutions using a modern AWS-based architecture with microservices on a Kubernetes stack, enhancing user portals to handle high traffic of up to 26 million users per month
- Modernized legacy payment systems through code refactoring, cutting processing costs by 8% and improving maintainability.
- Directed cross-functional teams (4–7 developers) across identity, billing, and communication services

Software Engineer, Amdocs

Nov 2014 – Mar 2017

- Revamped customer-facing systems, reducing billing and account response times from 2.5–4 minutes to 200–500 milliseconds.
- Pioneered contract-first microservice development, later adopted as an organizational standard that led to an improvement in integration test execution times by 22%
- Mentored internal teams and clients, providing technical guidance and improving development practices.
- Integrated third-party services and built responsive UI/UX interfaces in close collaboration with design teams.

Software Consultant, Citizens Property Insurance Corporation

Jul 2014 – Nov 2014

- Developed backend components and RESTful APIs for the ePAS application, ensuring compliance with updated Florida legislation.
- Migrated SOAP-based systems to RESTful services, improving integration and maintainability.

Software Consultant, ADP

Nov 2013 – Jul 2014

- Directed large-scale data migration strategy for enterprise systems, aligning with organizational compliance goals.
- Built modern RESTful interfaces to replace PL/SQL-heavy tooling.
- Enabled QA team to achieve 80% test coverage by developing robust unit/integration testing tools.

Core Competencies

Java, Go (Golang), Node.js, React, Kubernetes, AWS, Docker, Helm, Infrastructure as Code (IaC), Terraform, DevOps, CI/CD, Jenkins, GitHub Actions, Microservices Architecture, PostgreSQL, MongoDB, Open Api, Swagger, RESTful APIs, GraphQL, gRPC, Agile, Git, NGINX, Cloudflare, Ansible, Observability, Security Engineering, Machine Learning Integration, Team Leadership, Mentoring

Education

Master of Science, Telecommunications, University of Maryland — 2011–2013

Bachelor of Engineering, Electronics & Telecommunications, K.J.S.C.O.E — 2007–2011