

JERIN JOSEPH

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PROFESSIONAL SUMMARY

Experienced software engineer with 5+ years of expertise in developing and maintaining scalable, resilient, distributed software solutions. Delivered end-to-end features across frontend, backend, and serverless stacks with a strong product mindset focused on customer outcomes and data-driven decisions. Proficient in strongly-typed languages including TypeScript and Java, with extensive experience in cloud-native architectures and building systems that handle high-volume, mission-critical operations.

TECHNICAL SKILLS

Programming Languages: TypeScript, Java, Python, JavaScript

Frameworks & Libraries: Next.js, React, Spring Boot

Technologies: Amazon Web Services (AWS), Git, GraphQL, REST APIs, Docker, Kubernetes, Node.js, Kafka

Databases: DynamoDB, MySQL, OracleDB, PostgreSQL

Testing: Cypress, Jest, JUnit, Vitest

CI/CD: GitHub Actions, Jenkins

SaaS Services & Tools: Commercetools, Contentful, Okta, Postman, Salesforce, Zuora

EXPERIENCE

AICPA

Full Stack Engineer

January 2024 – Present

London, UK

- Architected and delivered high-impact features for a multi-tenant membership platform (AICPA/CIMA) serving 600K+ members, built on a serverless, event-driven microservices architecture with React and GraphQL, supporting scalable async processing and complex integrations across CRM, billing, e-commerce, CMS, and auth systems.
- Drove end-to-end performance optimization of backend APIs, reducing load latency by 93% by profiling bottlenecks, asynchronous workflow redesign, API batching, and overfetching reduction within the system design constraints.
- Modernized testing strategy by introducing Vitest, achieving 50% faster unit tests and improving development feedback loops across local development and CI/CD pipelines.
- Led proof-of-concept adoption of AI-assisted development (Claude Code), defining shared context architecture, configuration standards, and team workflows to improve developer productivity.
- Owned root cause investigation and resolution of complex cross-system production incidents impacting payments and subscription workflows, improving data consistency, resilience, and operational efficiency across distributed services.
- Mentored engineers and strengthened team delivery practices, creating onboarding documentation, system data-flow diagrams, pair-programming sessions, and knowledge-sharing workshops while leading weekly release cycles.

Wabtec Corporation (Formerly GE Transportation)

Full Stack Developer, Embedded System Engineer

July 2021 – July 2023

Bengaluru, India

- Delivered full-stack enhancements across React frontends and Java/Spring Boot REST APIs, improving platform stability through API optimization, enhanced exception handling, dependency upgrades, and security vulnerability remediation.
- Redesigned a high-traffic application dashboard, implementing client-side processing, memoization, virtualization, and lazy loading, reducing load times by 45% and significantly improving user experience.
- Automated build and deployment workflows by developing a Bash-based tooling solution that streamlined compilation, testing, and deployment processes, reducing manual effort and saving more than 15 minutes per build.
- Enhanced and maintained real-time software modules for locomotive onboard computer and event recorder systems, operating under strict reliability and performance constraints to support evolving operational and regulatory requirements.

Infosys Limited

Java Systems Engineer

February 2018 – July 2019

Trivandrum, India

- Managed a large-scale warehouse management system built on Java, PL/SQL, and Oracle DB, supporting operations across 8 geographically distributed U.S. locations.
- Diagnosed and resolved production issues, performing root cause analysis and implementing permanent fixes, reducing recurring incidents and support tickets by 25%. Recognized with the Infosys Insta Award for ownership and high-impact delivery.
- Revamped an internal tool used for reprocessing failed IBM MQ messages by adding support for multiple message queues with varying formats and enabling data ingestion from Excel files for automated re-queuing.
- Completed a 3-month comprehensive Java and Python development training with a focus on Object-Oriented Programming with key modules including Web App Design (HTML, CSS, JavaScript), SQL, Spring Boot, and Hibernate framework.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

March 2026

Credential ID: f6efa08828cb43e8b2f9237c48a9aabe

Application Development using Microservices and Serverless

IBM - Coursera

March 2024

Credential ID: W72H3ZZWP5J8

EDUCATION

Master's in Computer Science and Engineering (M.Tech)

August 2019 – July 2021

National Institute of Technology Calicut, India

Bachelor's in Computer Science and Engineering (B.Tech)

July 2013 – August 2017

Mahatma Gandhi University, India

PERSONAL PROJECTS

Misogyny Detection in Social Media | *Machine Learning, Python, React, Flask*

- Designed and developed a machine learning-based application to detect and report misogynistic content on social media platforms like Twitter/X, using Python and Flask for the backend.
- Integrated with Twitter APIs to scan user accounts in real time, analyze content, and provide actionable reports through a responsive React frontend.

Kerala Virtual Election | *React, Python, Node.js, PostgreSQL*

- Collaborated on the development of a platform designed to host pre-poll surveys, providing users with an authentic voting experience.
- Deployed the platform during the 2019 Kerala state legislative assembly elections, attracting over 79,000 users and driving more than 120,000 interactions