

LEO VARGHESE

Senior Full Stack Developer & Cloud Architect



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PROFESSIONAL SUMMARY

Senior Full Stack Developer and AWS Certified Solutions Architect with over 9 years of experience engineering scalable, cloud-native applications. Currently driving performance engineering for the Instana observability platform at IBM India Software Labs.

Demonstrates a proven ability to combine deep technical expertise in API-first and event-driven microservices (Java, Python, REST, Kafka) with a strategic business perspective (MBA in Operations) to deliver high-throughput, fault-tolerant solutions. Deeply invested in advancing software engineering practices by integrating Generative AI, Small Language Models (SLMs), and autonomous coding agents to accelerate enterprise development lifecycles.

CORE COMPETENCIES

- **Backend & Architecture:** Java, Python, SpringBoot, Microservices, Event-Driven Architecture (EDA)
- **Cloud & DevOps:** Amazon Web Services (AWS), Microsoft Azure, Kubernetes, Containerization, Jenkins, Concourse CI/CD, Git, Bitbucket
- **Data & Streaming:** Apache Kafka, ClickHouse, Elasticsearch, ActiveMQ, AWS SQS
- **Frontend & UI/UX:** Angular, JavaScript, HTML5, CSS3, Bootstrap
- **Performance & Operations:** Performance Benchmarking, System Troubleshooting, SDLC Management, Technical Mentorship
- **Emerging Tech & AI:** AI Tooling Integration, Small Language Models (SLMs), Model Context Protocol (MCP), Vibe Coding, IBM BOB, Google Antigravity

PROFESSIONAL EXPERIENCE

IBM India Software Labs | Kochi, India

Senior Full Stack Developer | August 2022 – Present

- Drive core development and architecture for the **Instana** observability tool, with a specialized focus on Performance Engineering.
- Lead architectural design reviews, conduct rigorous performance benchmarking, and troubleshoot complex bottlenecks across highly distributed enterprise workloads.
- Mentor cross-functional engineering teams in Java, Python, and Kubernetes best practices, acting as the "go-to" technical authority to resolve architectural doubts.
- Actively explore and integrate modern AI tooling and paradigms into the development lifecycle to automate code reviews, generate test cases, and enhance product intelligence.

Tata Consultancy Services (TCS) | Kochi, India

IT Analyst | *March 2019 – August 2022*

- Spearheaded massive on-premise to cloud migrations (AWS and Azure) for premier global clients, including **Belgium Post (Bpost)** and **Bayer**.
- Navigated complex, provider-specific cloud limitations to design fault-tolerant, horizontally scalable architectures.
- Architected and deployed highly optimized, event-driven microservice networks utilizing ActiveMQ and AWS SQS.
- Developed responsive, user-centric frontend interfaces and enterprise dashboards using Angular, applying strong UI/UX principles.

IBS Software | Kochi, India

Senior Software Engineer | *September 2016 – February 2019*

- Engineered high-availability microservices and customer booking web tools within the high-stakes airline domain.
- Delivered critical travel aggregation features for major clients like **Expedia**.
- Aligned rigorous technical deliverables with business outcomes and revenue goals by mastering domain-specific travel and airline logic.

EDUCATION

Master of Business Administration (MBA) in Operations Management *Indira Gandhi National Open University (IGNOU) | 2020 – 2022*

- Leveraged operations principles to master SDLC planning, strategic delegation, and optimal project delivery methodologies.

Bachelor of Technology (BTech) in Computer Science *Adi Shankara Institute of Engineering and Technology | 2012 – 2016*

CERTIFICATIONS & ACHIEVEMENTS

-  **AWS Certified Solutions Architect** (Amazon Web Services)
-  **IBM Certified Container Practitioner** (IBM)
-  **Kerala Startup Mission Certification**