Krishna Teja Sunkara

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Bengaluru, India | Open to Relocation

Professional Summary

Engineering Leader & Lead Developer with **12 years of experience** building **secure, scalable, cloud-native enterprise systems** across **aviation, finance, and publishing** domains. Proven track record of delivering **99.9% API uptime**, improving **UI performance by 50%**, and **accelerating development by 20%** through containerization and CI/CD automation. Strong ownership of **system design, microservices architecture, reliability, and AWS cloud platforms**, with hands-on experience driving **cost optimization (FinOps)** and **security improvements**. Recognized for **leading teams of up to 10 engineers**, mentoring developers, owning technical initiatives, and collaborating across **global, cross-region teams** to deliver **business-critical systems**

Key Skills

Programming: Java 17+, Python, SQL, TypeScript
Frameworks: Spring Boot, Spring, Angular (12+), FastAPI
Cloud & DevOps: AWS (Lambda, API Gateway, S3, DynamoDB, ECS, SQS, CloudWatch, CloudFront, Route 53, CodePipeline, CloudFormation), Docker, GitLab CI/CD
Databases: DynamoDB, MySQL, MongoDB
Engineering Practices: Microservices, System Design, CI/CD, Test-Driven Development (TDD), Agile (Scrum)
Quality & Tooling: JUnit, Jasmine, Maven, Git, Swagger, JIRA, Confluence
AI Tools: AWS Textract, Amazon Q, Microsoft Copilot, Prompt Engineering

Professional Experience

Lead Developer (Full Stack) – Delta Airlines | *Jun 2023 – Present*
- Led a **cross-functional team of 8 engineers across US–India**, owning system design, delivery, and production stability for mission-critical distributed APIs
- Delivered **99.9% uptime** by engineering **failover** mechanisms for distributed APIs, reducing incidents and improving reliability
- Drove cloud **cost optimization** (FinOps) by including **DynamoDB TTL** policies, re-architecting network data transfer paths and automating resource optimization (rightsizing and scheduling), reducing non-production cloud spend by **~25%**
- Reduced security risk by integrating **Veracode SAST/DAST/SCA** into CI/CD, enabling early detection and fixing **100+ vulnerabilities**
- Improved real-time dashboard performance by **50%** through RxJS optimization
- Reduced documentation effort **40%** by automating internal knowledge workflows and standardizing engineering playbooks
- Cut API failures **~30%** by migrating on-prem services to AWS (API Gateway, Lambda) with modernized integrations

Technical Lead (Full Stack) – London Stock Exchange Group (LSEG) | *Jul 2022 – Jun 2023*
- Led a **team of 10 engineers** delivering Angular and Spring Boot applications in a globally distributed environment
- Implemented GitLab CI/CD pipelines, reducing manual release efforts by **40%** and enabling automated deployments
- Facilitated **code reviews** and technical interviews, raising code quality standards

Senior Full Stack Engineer – Taylor & Francis Group | *Jul 2021 – Jul 2022*
- Developed **Spring Boot REST APIs** and integrated with publishing microservices for metadata, journal, and article transfer
- Implemented **OAuth 2.0** authentication, securing both user and API-to-API communications
- Utilized **Aspose** for **DOC-to-PDF conversion**, adding **watermarks, headers, and pagination** to manuscripts
- Improved system reliability by increasing **test coverage to 90%**

Senior Software Engineer – Refinitiv (acquired by LSEG) | *Apr 2018 – Jul 2021*
- Built multi-threaded Java applications for high-volume, real-time data processing, integrating with InfluxDB (time series database) for market data storage and retrieval
- Introduced **Docker**, reducing local setup time by **20%** and simplifying onboarding
- Implemented **JWT-based authentication** strengthening security for web applications
- Built a multi-threaded REST client for parallel TRIT API calls, delivering **~10× faster** document processing

QA Engineer / Senior QA Engineer – Thomson Reuters (business unit later became Refinitiv) | *Apr 2014 – Apr 2018*
- Achieved **100% automation** for SDI and database comparison testing using Java and Selenium, reducing regression cycle time by **60%**

Projects & Highlights

- **FICON – Field Conditions, Weather Systems (Delta Airlines):** Implemented **failover mechanisms**, ensuring **99.9% uptime** and improved system reliability
- **Forest Spirit (LSEG):** Built **Docker-based local setup**, **Angular UIs**, and a **multi-threaded REST client** for parallel ML API calls. Explored **Amazon Textract (POC)** and delivered a **custom PDF-to-HTML pipeline** for **paragraph-level document AI processing**
- **Dynamic Submission Web V2 (Taylor & Francis):** Built **Angular 12 UIs**, **Spring Boot APIs**, and **Aspose-based PDF processing** for a **global manuscript submission platform** serving researchers and journal editors
- **Fast Tick (Refinitiv Dev):** Designed **microservices** (leveraging concurrency patterns such as the **Akka actor model**) and deployed them on **AWS ECS** to process **intraday quote data** and **corporate actions files**. Built a **multi-threaded Java pipeline** for high-frequency and **multi-GB historical datasets**, integrating with **InfluxDB** and **AWS S3 multipart upload**. Outputs powered **Refinitiv Eikon**, enabling global traders and analysts with real-time and reference data
- **Corporate Actions Master (Refinitiv QA):** Achieved **100% test automation** in **SDI & DB comparison testing** using **Java**. Automated **UI testing** with **Selenium**, significantly reducing regression cycles

Certifications
- AWS Certified AI Practitioner
- AWS Certified Developer – Associate
- AWS Certified Solutions Architect – Associate

Education

- **Bachelor of Technology (B.Tech), Computer Science & Engineering** – PVPSIT, Vijayawada (*2008 – 2012*)