Athul Krishna Kottakkal Suresh

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Full Stack Software Engineer with over 4 years of experience architecting and building secure, scalable **SaaS** and **Fintech** platforms. Deeply proficient in **React**, **Node.js**, and **TypeScript**, with a focus on delivering high-performance user interfaces and resilient backend services. Proven success in fast-paced startups and global enterprises (**FactSet**, **Good With**), driving end-to-end product development from concept to deployment. **MSc in Cyber Security** and **AWS Certified Solutions Architect**, committed to engineering best practices, cloud-native solutions, and secure-by-design methodologies.

Experience

Good With Ltd.   London, UK
Full Stack Software Developer   October 2023 - Present

- Spearheaded the architecture and development of flagship cross-platform applications as one of two core engineers, migrating a **Flutter**/**Firebase** stack to a high-performance **Next.js** and **Express.js** ecosystem via **React WebView**.
- Modernised infrastructure using **Terraform** on **GCP**, transitioning from Compute Engine, Cloud Build and Cloud Tasks to Cloud Run and **GitHub Actions** to reduce deployment cycles by 40%.
- Reduced API response latency by 20% and eliminated cold starts by refactoring core services and migrating legacy Firebase functions to a dedicated backend, improving overall system throughput.
- Directed the end-to-end product lifecycle, architecting scalable **Node.js** RESTful APIs and optimising **PostgreSQL** schemas to facilitate seamless data orchestration and successful releases to the Apple and Google Play Stores.
- Led all security initiatives as Security Lead, establishing secure-by-design coding practices and automated vulnerability monitoring to successfully guide the company to achieve **Cyber Essentials Plus** certification.

FactSet Research Systems Inc.   Hyderabad, India
Software Engineer   February 2021 - August 2022

- Developed 32 new endpoints for 7 different REST APIs of the company product using **Java** and **Spring Boot**.
- Secured **AWS** network infrastructure by proactively monitoring for threats and responding to potential security breaches in real-time.
- Achieved 99.95% availability for critical financial services by implementing secure practices that minimised client-impacting SLT breaches.

Good Methods Software Solutions Pvt. Ltd.   Thiruvananthapuram, India
Software Development Engineer   July 2020 - January 2021

- Implemented two core features for the Carestack web app using **.NET Core** and **Angular** to improve functionality.
- Designed **SQL**-based software solutions to fulfil complex user requirements and optimise data management.
- Facilitated the migration from AngularJS to Angular 2 by containerising the application with **Docker**, ensuring environment parity and enhancing system scalability.

Education

King's College London   London, UK
Master of Science   September 2023
Cyber Security

Govt. Model Engineering College   Ernakulam, India
Bachelor of Technology in Electronics and Communication Engineering   June 2020
Board: APJ Abdul Kalam Technological University (KTU)
CGPA: 8.62 / 10.0

Projects

ItinApp - AI-Powered Travel Planner

- Pioneered an AI-powered SaaS platform using **Next.js 16** and a **T3 Stack** monorepo (**Turborepo**) with **TypeScript**, reducing user planning time by 90% through custom **OpenAI** prompt engineering and **Zod**-enforced type safety across **tRPC** and **Prisma ORM**.
- Developed a responsive, accessible UI with **Tailwind CSS** and **Shadcn**, implementing optimistic updates for near-instant interaction and integrating secure **NextAuth.js** (Google OAuth) for robust identity management.
- Optimised serverless infrastructure on **Vercel** using **Supabase PostgreSQL** with **PgBouncer** for high concurrency, maintaining enterprise-grade reliability via **Vitest**/**Playwright** testing pipelines and **Sentry** observability.

Spring Boot Project Suite

- Architected a collection of three **Java Spring Boot** projects spanning a monolithic RESTful web service, a microservice architecture project, and a distributed event-driven microservice system.
- Deployed distributed services on **AWS** by containerising microservices with **Docker**, integrating **RabbitMQ** for event-driven messaging, **ELK** for real-time observability, and **MySQL** for data persistence.