

# 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 **Shaden**, 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.