

Mahendra S H

Java Cloud Full-Stack Engineer

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Professional Summary

- **Java Cloud Full-Stack Engineer** (Specialist Programmer) with over 2 years of experience architecting high-throughput microservices and responsive SaaS applications using **Java 21, Spring Boot, React, and AWS**.
- **Backend & Cloud**: Proven track record in event-driven microservices, AWS cloud infrastructure (**EC2, S3, SQS**), automated batch processing (**Spring Batch**), and RESTful API / OpenAPI management.
- **Testing & Quality**: Expertise in test automation frameworks (**JUnit, Mockito**), conducting code reviews, Root Cause Analysis (RCA), and adhering to CI/CD quality gates and Docker containerization.

Work Experience

Infosys — Specialist Programmer
Hyderabad, India (Hybrid)

Jul 2024 – Jun 2026

- **Cargo Readiness (CMA-CGM Project)**: Architected and engineered a **microservices** backend using **Java 21, Spring Boot**, and **RESTful APIs (OpenAPI)** for event-driven container readiness assessment workflows.
- Integrated **AWS SQS** queues, **AWS S3**, and **Camunda BPM** for event-driven queue orchestration, reducing manual verification overhead by **35%**.
- Employed **Spring Batch** to automate high-throughput end-date verification and backend checks, processing **50k+ active bookings** daily.
- Developed a responsive **React** frontend dashboard utilizing **React Query** and **TanStack Table**, improving officer decision-making efficiency.
- Optimized database queries in **PostgreSQL (SQL)** to reduce REST API response times by **20%** and enhance overall system throughput.
- Developed automated unit/integration test suites with **JUnit & Mockito**; performed code reviews and Root Cause Analysis (RCA) adhering to **CI/CD** quality gates and **Docker** deployments.

Merav Infotech — Software Engineering Intern
Mysore, India (Remote)

Feb 2024 – May 2024

- Spearheaded frontend feature development and designed reusable UI components using **React.js** and modern **JavaScript (ES6+)**.
- Collaborated with senior engineers to integrate **RESTful APIs**, reducing initial page load times by **15%** via lazy loading and code-splitting.
- Participated in Agile sprint planning and daily standups to ensure timely delivery of software features.

Key Projects

E-Commerce Platform (E-Store) (Next.js, React, Tailwind CSS, Shadcn UI, Prisma ORM, MySQL, AWS S3)

- Built a full-stack e-commerce solution with admin capabilities for managing products, catalog categorization, and processing customer orders.
- Designed scalable REST APIs for custom storefronts; deployed on **Vercel** with **AWS S3** for product asset and media management.
- Configured database schemas using Prisma ORM with MySQL to ensure query scalability and high transaction reliability.

SpendOptima (Next.js, React, Tailwind CSS, Recharts, TypeScript)

- Built a premium personal finance tracking and expense optimization dashboard featuring clean budget analytics.
- Designed responsive client dashboards with interactive statistics using Recharts, allowing users to analyze spending habits.
- Structured modular frontend templates optimized for fast loading times and robust SEO search visibility.

SaaS Form Builder Platform (Next.js, React, Node.js, Express, PostgreSQL, AWS)

- Built a full-stack, **no-code** SaaS form builder allowing users to create and customize dynamic forms via an intuitive drag-and-drop interface.
- Created a lightweight embeddable script package enabling external websites to embed and render forms dynamically.
- Constructed secure REST APIs for form creation and analytics tracking across **20+ client sites**, deployed on **Vercel/AWS**.

Shadcn UI Form & Table Generators (Open-Source) (Astro, React, TypeScript, TanStack Table v8, Shadcn UI, Zod)

- Published open-source developer tools that scaffold fully-typed Shadcn UI form schemas and TanStack Table v8 components from JSON/OpenAPI specs.
- Designed intuitive schema generator engines that automatically infer TypeScript types, reducing boilerplate UI code setup time by **80%** for developers.

Technical Skills

Languages & Specs:	Java (21), JavaScript (ES6+), TypeScript, SQL, OpenAPI, RESTful APIs, HTML5/CSS3
Backend & Cloud:	Spring Boot, Microservices Architecture, Spring Batch, AWS (EC2, S3, SQS), API Management, Camunda BPM
Frontend:	React.js, Next.js, Tailwind CSS, Shadcn UI, TanStack Table v8, Redux, React Query
Databases & ORM:	PostgreSQL, MySQL, MongoDB, Prisma ORM
DevOps, QA & Tools:	Docker, CI/CD Pipelines, Test Automation (JUnit, Mockito), Root Cause Analysis (RCA), Git, GitHub, Agile/Scrum

Education

National Institute of Engineering (NIE) — B.Tech in Computer Science & Engineering

Graduated: May 2024

Grade: 7.3 / 10 CGPA | Relevant Coursework: Data Structures, Database Systems, Software Engineering

Mysore, India