

Tanmay Singh

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FULL STACK DEVELOPER

Full-stack Software Engineer with 4+ years experience building scalable web applications using Angular, Node.js, Express.js, Java (Spring Boot), and AWS. Deliver solutions that enhance performance and reliability for thousands of users. Experienced in reducing costs, improving system throughput, and maintaining high code quality with automated testing and Agile practices.

EXPERIENCE

Tata Consultancy Services

Systems Engineer

September 2023 – Present

Client: American International Group (AIG)

- Migrated the critical **Quote and Bind** platform in the Deal Management System from **JSF** to **Angular 17**, improving page load speed by **30%**, reducing maintenance effort by **40%**, and accelerating release cycles by **35%**, enhancing user experience for over **5,000** active business users.
- Designed, developed, and optimized **50+ RESTful API** services with **Spring Boot**, increasing backend throughput by **25%** and reducing average API response times by **25%**.
- Upgraded backend systems from **Java 11** to **Java 17** and migrated **TomEE 8** applications to **TomEE 10**, resulting in a **15%** faster application startup, improved security posture, and **20%** reduction in system downtime.
- Implemented a comprehensive centralized logging system employing Splunk; enabled real-time anomaly detection, reduced mean time to resolution (MTTR) by **20%**, and improved system stability by **15%**.
- Integrated **Okta-based authentication and authorization** for secured access to **RESTful APIs**, ensuring compliance with enterprise security standards, reducing unauthorized access attempts by **30%**, and strengthening overall application security.
- Maintained and enhanced a high-availability Deal Management System supporting **5,000+** concurrent business users, ensuring **99.9%** system uptime and scalability for future growth.
- Provided production support and resolved live issues during **20+** major production releases, ensuring compliance with regulatory standards and minimizing downtime.

Infosys

Senior Systems Engineer

July 2021 – July 2023

Client: Vanguard

- Contributed to the frontend development team, leading the migration of a legacy **Plan Configurator** application to **Angular** and **Spring Boot**, reducing technical debt and boosting application speed. **Optimized the plan configuration workflow, cutting policy setup times from days to minutes** and greatly improving operational efficiency.
- Designed and developed interactive user interfaces in **Angular** based on **Figma** prototypes and **Jira** requirements, attaining **95% design accuracy** and delivering a superior user experience.
- Implemented **Micro Frontend (MFE)** architecture using **Single-SPA**, allowing for modular UI components, independent deployments, and seamless feature scalability.
- Engineered a mapping function to integrate **CMS** and **API** responses, reducing manual UI update tasks by **60%**.
- Practiced **Test-Driven Development (TDD)** with **Jasmine** and **Karma**, raising test coverage to **85%** and minimizing bugs in production.
- Collaborated cross-functionally with back-end developers to ensure robust RESTful API integrations and consistent data flow between front-end and server-side services.
- Leveraged Angular features like reactive forms, component reusability, and RxJS observables to build maintainable and scalable client-side applications.

EDUCATION

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science

June 2017 – June 2021

Percentage: 79%

TECHNICAL SKILLS

Languages : TypeScript, Java
Frameworks : Angular, Node.js, Express.js, Spring Boot
Libraries : Material UI, RxJS
Cloud & DevOps : AWS (EC2, Lambda), Azure Fundamentals, Docker, CI/CD (GitHub Actions, Jenkins)
Caching & DBs : SQL, Kafka, Redis
Version Control : Git, GitHub, Bitbucket
Monitoring Tools : Splunk, AWS Cloudwatch
Build & Package Managers : Maven, Gradle, npm

CERTIFICATIONS

- AWS Certified Developer - Associate
- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner
- Microsoft Certified: Azure Fundamentals