

TAMOJIT ROY

Fullstack Developer

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Summary

Full-Stack Developer with 2+ years of experience building and deploying end-to-end web applications. Skilled in front-end and back-end development. Demonstrated ability to deliver scalable, high-performance solutions in the manufacturing domain and a strong commitment to continuous learning.

Skills

Programming: Java, JavaScript, HTML, CSS, Python

Frameworks: React.js, Angular, Spring Boot

Databases: PostgreSQL, MySQL

Tools & Platforms: Visual Studio Code, IntelliJ IDEA, Eclipse, Postman, Insomnia, pgAdmin, Subject7

Experience

Senior Software Engineer I

July 2024 – August 2025

John Deere India Pvt. Ltd. (Hybrid)

- Authored comprehensive unit tests for front-end (**JEST**) and back-end (**JUnit/Mockito**) codebases, ensuring robustness and reliability.
- Contributed to **development of REST APIs** enabling efficient client-server communication.
- **Developed and optimized SQL queries** to support API workflows, improving data retrieval times and overall backend responsiveness.
- Designed and **enforced business logic for Java Spring Boot application**, leveraged **JPA** for efficient database operations, and optimized backend microservices for enhanced scalability and execution efficiency.
- **Utilized Insomnia for API design, testing, and debugging**, and ensuring reliable, error-free API operations.
- **Collaborated with UX Lead and Product Owner** in an Agile/Scrum environment.

Graduate Engineer Trainee

July 2023 – June 2024

John Deere India Pvt. Ltd. (Hybrid)

- Acquired hands-on experience with **Agile/Scrum** methodologies.
- Reengineered and fine-tuned reusable React components to meet specific business requirements, enhancing responsiveness and maintaining high code quality.
- Developed automated test solutions on the **Subject7** SaaS tool to improve testing efficiency and coverage.

Projects

ADVANCE

July 2023 – August 2025

- **Increased code coverage of both frontend and backend codebase to more than 80%** for ensuring code quality and feature integrity.
- Implemented a feature enabling transmission of an additional core entity field and fine-tuned it to reduce manual input period by **1.8 mins.** for two such entries.
- Facilitated **migration from AG Grid to MUI Grid** across the application, ensuring consistency and functionality.
- Assisted in designing and applying reusable React components. Made various optimizations in the UI code for efficient rendering of custom components and adjusted their functionality according to business requirements.
- **Created SQL scripts and optimized dataset retrieval** for backend processing workflows, improving system throughput and data reliability.
- Employed **React Scan** to detect issues & reengineered React.js UI modules with modular architecture and **Redux** state flow, eliminating redundant refresh cycles and accelerating responsiveness by **30%**.
- Streamlined & debugged **AWS Lambda** functions, improving runtime efficiency and cutting response latency by **10%**.
- Resolved multiple regression defects pre-deployment to ensure seamless and stable rollout of features to stakeholders.

Awards & Certifications

- **AWS Certified Cloud Practitioner - AWS (2022):** Acquired foundational knowledge of AWS core services, pricing models, and security best practices, demonstrating proficiency in cloud computing fundamentals.
- **Prompt Engineering Challenge - Harmony Hackers Award (2025):** Recognized for exceptional collaboration and strategic use of AI prompts to accelerate end-to-end development of a full-stack feature in a single day.

Education

B.Tech Computer Science and Engineering

Graduated: 2023

Vellore Institute of Technology, Chennai

CGPA: 8.78 / 10