SOUMEN MITRA

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SKILLS

Java, Springboot Microservices	OAuth 2.0, Spring Security Git, Gradle, Maven	Kafka/Kinesis AWS

EXPERIENCE

INFOSYS – **Senior Associate Consultant** – (Jan 2025 - present)

- Worked on Developing and Maintaining Microservices based Api-gateway application using Spring Boot and Spring Security. integrated them with AWS Cloud and Kubernetes Container Management tool for scalable, secure and highly available solution.
- Implemented JWT token-based authentication for secure user sessions and seamless service-to-service communication.
- Developed Oauth 1.0 and 2.0 based authentication system for seamless and secure service communication
- Collaborated with cross-functional teams, including DevOps, to deploy services on AWS using best practices for security, scalability and fault tolerance. And Implemented unit tests adhering to Test-Driven Development (TDD) principles and prepared Functional Requirement Documents (FRD).

COGNIZANT **- Software Engineer -** (Aug 2021 - Nov 2024)

- As a Java Developer, increased efficiency of a manual data processing step to **95%** by using a new Spring boot service. From average **3 weeks to mere 5-10 minutes** of program run-time.
- **Reduced bugs to 25%** by executing spring boot upgrades and OCP migrations to keep the project up-to-date. Implemented best coding practices, ensuring high-quality deliverables
- Planned and implemented the data transfer during DB migration to PostgreSQL.
- Developed **new java functionalities** in the project as part of a new business feature to enhance its capabilities.

EDUCATION

B.Tech CSE - 2017 - 2021	**9.06**
Higher Secondary 2017	83.4%
Secondary 2015	86%

PROJECTS

- SMART TRAFFIC SYSTEM –
  - Using Python and Java to detect Congestion and traffic delays and their propagation using ML techniques using HMM (Hidden Markov Model) and the Damerau-Levenshtein distance algorithm.
  - Got the calculations on spatial-temporal measurement to predict the upcoming congestion and its propagation based on mean speed of active vehicles and vehicle-count per minute.
  - Achieved mapping and detection of what road regions that are concurrent in nature.