

Sourav Saha

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Professional Summary

Software Engineer with 4 years of experience designing and developing scalable backend services using Java, Spring Boot, and REST APIs. Skilled in microservices architecture, AWS, and OCI cloud platforms. Strong computer science fundamentals and achieved an All India Rank of 116 in GATE Computer Science.

Work Experience

Oracle

Oct '23 – Present

Software Development Engineer 2 — OCI Compute & Intelligent Prior Authorization (IPA)

- Designed and developed backend services and APIs for Oracle Health IPA, automating prior authorization workflows using FHIR-based healthcare services to manage **Task**, **Claim**, and **Bundle** resources.
- Built APIs for OCI Compute C4PO page, enabling real-time monitoring of BM and VM instance statuses across regions.
- Implemented integration, functional, and load testing pipelines to ensure reliability for healthcare workflows.
- **Tech:** Java, Go, Spring Boot, REST APIs, Terraform, Redis, Docker, Kubernetes

Amazon

Mar '22 – Jun '23

Software Development Engineer — Product Safety and Compliance (PSC)

- Designed and implemented a Work Allocation and Orchestration platform, improving operational efficiency and enabling scalable task distribution.
- Developed APIs to search, assign, and track work items; validated critical flows (`getWork`, `updateWork`, `submitWork`) with integration tests to ensure correctness and reliability.
- Contributed to cross-region marketplace expansion for ASINs.
- **Tech:** Java, AWS, DynamoDB, React, REST APIs, JUnit/Mockito

HCL Technologies

Jun '21 – Mar '22

Senior Software Engineer — Digital Industries 4.0 – MES

- Designed and developed MES software tools to improve manufacturing operations and optimize workflows.
- **Tech:** C++, PL/SQL

Education

2021 M.Tech (Computer Science) IIT Kharagpur

2018 B.Tech (Information Tech.) Institute of Engineering and Management (IEM), Kolkata

Academic Projects

M.Tech Thesis - Biomedical Knowledge Graph for NLP Applications

Jun '20 – May '21

Built a system to search relevant trials using Multi-Example Search and a Biomedical Knowledge Graph, enhancing Adverse Drug Reaction (ADR) classification from patient review texts and reducing error by 18%.

Skills and Expertise

- **Programming Languages:** Java, Spring Boot, C++, Go, Python
- **Tools:** AWS, OCI, JUnit/Mockito, Docker, Kubernetes, Kafka, Redis
- **Databases:** MySQL, PostgreSQL, Amazon DynamoDB

Achievements & Responsibilities

- Qualified GATE 2019 CSE with AIR 116 (Percentile: 99.88)
- Teaching Assistant: Computing Lab-1 (CS69001, Autumn '20) and Algorithm-1 (CS21003, Spring '21)