

Sourav Saha

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Professional Summary

Software Engineer with 4+ years of experience building scalable backend systems at Oracle and Amazon. Experienced designing distributed microservices, REST APIs, and cloud-native applications using Java, Spring-Boot, Go, C++, AWS, OCI. Strong foundation in distributed systems and backend architecture, backed by an M.Tech in Computer Science from IIT Kharagpur and AIR 116 in GATE Computer Science.

Work Experience

Oracle

Oct '23 – Oct '25

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

- Developed Java Spring Boot backend services for Intelligent Prior Authorization (IPA), automating healthcare authorization workflows using FHIR resources (**Task**, **Claim**, and **Bundle**).
- Built REST APIs for OCI Compute (C4PO) to enable real-time monitoring of Bare Metal and Virtual Machine health across multiple OCI regions.
- Developed integration and load testing frameworks to improve deployment reliability for critical workflows.
- **Tech:** Java, Spring Boot, Go, REST APIs, Redis, Docker, Kubernetes

Amazon

Mar '22 – Jun '23

Software Development Engineer — Product Safety and Compliance (PSC)

- Developed backend services for the Product Safety and Compliance Work Allocation platform, enabling scalable task orchestration and improving operational efficiency.
- Built REST APIs to search, assign, and manage work items; developed integration tests for critical workflows (**getWork**, **updateWork**, and **submitWork**) to improve software reliability.
- Extended backend workflows to support onboarding of new Amazon marketplaces for ASIN compliance.
- **Tech:** Java, Spring Boot AWS, DynamoDB, React, REST APIs, JUnit/Mockito

HCL Technologies

Jun '21 – Mar '22

Senior Software Engineer — Digital Industries 4.0 – MES

- Designed and developed modules for Manufacturing Execution Systems (MES), automating production workflows and optimizing manufacturing operations for Industry 4.0 solutions.
- **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 Biomedical Knowledge Graph-based clinical trial retrieval system using Multi-Example Search, reducing Adverse Drug Reaction (ADR) classification error from patient review texts by 18%.

Skills and Expertise

- **Languages:** Java, Go, C++, Python
- **Backend:** Spring Boot, REST APIs, Microservices, Distributed Systems, JUnit, Mockito
- **Cloud & DevOps:** AWS, OCI, Docker, Kubernetes, Kafka
- **Databases:** MySQL, PostgreSQL, Amazon DynamoDB, Redis

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)