

Mohammad Saalim

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Professional Experience

Software Engineer, Samsung Research Institute

June 2022 - Sept 2024

- Designed and implemented over 10+ microservices using Spring Boot, enabling seamless integration with legacy systems.
- Engineered and maintained a suite of 15+ RESTful APIs for critical data services, resulting in a **40% accuracy** in system performance and **25% faster data retrieval**.
- Leveraged Hibernate ORM, cutting down boilerplate code by **50%** and boosting database query **efficiency by 35%**.
- Conducted comprehensive API testing with Postman, leading to **98% test coverage** and reducing **production bugs by 45%**.
- Deployed Java applications using **Docker and Kubernetes** on AWS, ensuring smooth CI/CD pipelines and scalability.
- Reduced query latency by **60%** by analysing execution plans and adding proper indexing on frequently accessed tables in MySQL.
- Enhanced API concurrency handling by designing thread-safe modules using ConcurrentHashMap and synchronisation, resulting in **35%** fewer race condition bugs in multi-threaded environments.

Software Engineer Intern, Samsung Research Institute

Jan 2022 - May 2024

- Developed a RESTful backend using Spring Boot to manage student registrations, course enrolments, and grade records, handling CRUD operations with **100% REST compliance**.
- Integrated Hibernate ORM to manage database entities, reducing raw SQL use and improving maintainability by **40%**.
- Optimised SQL queries for fetching course histories with JOINS and indexing, improving query **speed by 2x**.
- Used Git for version control and collaborated on GitHub with peers, gaining real-world experience in source code management and pull requests.

Technical Skills

- Programming Languages:** Java, Python, JavaScript, C++.
- Databases:** MySQL, Redis, NoSQL.
- Framework:** Spring Boot, Hibernate, Maven.
- Tools:** Postman, Confluence, GitHub, RabbitMQ, Kafka, Docker, Kubernetes.
- Cloud:** AWS, GCP.
- Design:** System design (HLD, LLD, API design).

Projects

Billing and Payment System

Jan 2022 - May 2022

- Designed a high-performance payment processing microservice using Spring Boot and MySQL, enabling multi-currency transactions across 10+ international currencies.
- Enhanced the system to process over 1,000 transactions per second, **achieving 99.99%** uptime and reducing transaction latency by **45%** compared to the legacy system.
- Integrated secure transaction flows with real-time currency conversion, improving user satisfaction and increasing successful **transaction rates by 30%**.

Education

B.Tech in Electronics and Communication(GPA: 9.45/10)
Jamia Millia Islamia, New Delhi

August 2018 - June 2022

Certifications

- Professional and Advanced SWC (Software Competency Certification).
- Samsung Incredibles Award in recognition of exceptional performance, Quarter 3 2023.