

# SAUMYA RANA

Backend Software Engineer | Java, Spring Boot, Microservices, Cloud

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## PROFESSIONAL SUMMARY

Backend software engineer specializing in building scalable, maintainable microservices using Java and Spring Boot. Experienced in designing RESTful APIs, implementing event-driven architectures with Kafka, and deploying containerized services on AWS. Strong focus on clean code, system reliability, and long-term maintainability in production environments.

## TECHNICAL SKILLS

Backend: Java, Spring Boot, Kafka, Spring Security, Spring Data JPA, REST APIs, Microservices

Databases: PostgreSQL, MongoDB (schema design, ORM/JPA)

Cloud & DevOps: Docker, AWS (EC2), GitHub Actions, Jenkins

Frontend: React, JavaScript, Axios

Testing & Tools: JUnit, Postman, Git, IntelliJ IDEA

Methodologies: Agile/Scrum, CI/CD

## EDUCATION

**Master of Applied Computer Science**, Concordia University (2024 - 2026) — GPA: 3.97 / 4.30

**Graduate Diploma in Computer Science**, Concordia University (2023 – 2024) — GPA: 3.94 / 4.30

**Bachelor of Engineering - Electronics and Communications**, Chitkara University, India | 2013 - 2017

## PROJECTS

### Fitness Microservices App

- Designed and implemented decoupled microservices using Spring Boot, applying layered architecture and separation of concerns to enable independent deployment and scalability
- Implemented OAuth2/OIDC authentication using Keycloak and JWT-based authorization
- Built service discovery using Eureka and implemented event-driven workflows with Kafka to handle asynchronous inter-service communication across multiple services.
- Deployed 5+ containerized services on AWS EC2 with production-style networking and configuration

### Full Stack E-commerce App

- Developed backend services exposing 15+ RESTful endpoints for product, authentication, and order management using Spring Boot and PostgreSQL
- Designed relational schema and indexing strategies to optimize query performance and reduce response latency
- Implemented JWT-based authentication and role-based access control with Spring Security
- Wrote unit tests using JUnit to validate core business logic

## EXPERIENCE

### Senior Software Engineer — Capgemini Technology Services, India | 2017 – 2019

- Worked in Agile teams supporting large-scale enterprise banking systems with strict reliability, consistency, and regulatory requirements.
- Validated and tested 150+ transaction workflows across Temenos T24 modules, ensuring correctness of batch and service-based processing
- Collaborated with QA and business teams to analyze and resolve production issues, improving system stability and reducing recurring defects.

### Business Operations Manager — Arian Drugs & Surgical (Family Business), India | 2019 – 2023

- Managed internal systems and e-commerce operations, ensuring accurate data flow and reliable order processing
- Improved operational workflows and supplier coordination, reducing order processing time by ~20%

