

Rahul Pal

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Summary

Java Backend Developer and MCA student at Galgotias University (2027) with hands-on experience building production-grade REST APIs using **Java**, **Spring Boot**, **Spring Data JPA**, **Hibernate**, and **MySQL**. Designed and deployed secured backend systems with layered architecture, JWT authentication, and centralized exception handling. Passionate about backend engineering and applied **AI/ML**. Seeking **Software Engineering Internship** roles.

Technical Skills

Languages: Java, Python, SQL, HTML, CSS

Frameworks: Spring Boot, Spring Framework, Spring Data JPA, Hibernate, Spring Security, Lombok, Maven

Databases: MySQL, JDBC

Tools: Git, GitHub, Postman, VS Code, IntelliJ IDEA, MySQL Workbench

Concepts: OOP, DSA, REST API Design, JWT Auth, DB Design & Normalization, Bean Validation, MVC Architecture

Projects

Library Management System

Jun 2026

Java · Spring Boot 3.x · Spring Security · JWT · Spring Data JPA · Hibernate · MySQL · Maven

<https://github.com/rahulpal-codes/library-management-springboot>

- Architecting a **secured REST API** with **JWT authentication** and BCrypt password hashing; role-based access control for USER/ADMIN roles via Spring Security
- Modeling **one-to-many JPA relationships** (Member → Loans, Book → Loans); auto-generating normalized 4-table MySQL schema via Hibernate DDL
- Implementing **transactional** book issue/return logic with real-time availability tracking and 14-day due date enforcement via **@Transactional**
- Designing 15+ REST endpoints across auth, books, members, and loans with **@RestControllerAdvice** for structured error responses

Student Management System

Jun 2026

Java · Spring Boot 3.x · Spring Data JPA · Hibernate · MySQL · Maven · Lombok

<https://github.com/rahulpal-codes/student-management-springboot>

- Built a **production-ready RESTful API** with 5 endpoints (POST, GET, GET/:id, PUT, DELETE) for complete CRUD lifecycle management of student records
- Applied **3-layer architecture** (Controller → Service → Repository) with interface-driven service design following **SOLID** principles
- Enforced input validation via **Bean Validation** (**@Valid**, **@NotBlank**, **@Email**, **@Pattern**) and built **@RestControllerAdvice** for structured error responses (400, 404)
- Configured **HikariCP** connection pooling; tested all endpoints via **Postman** covering HTTP 200, 201, 400, and 404 scenarios

Education

Master of Computer Applications (MCA)

2025 – 2027

Galgotias University, Greater Noida, Uttar Pradesh

Coursework: Data Structures & Algorithms, DBMS, OOP, Software Engineering, Computer Networks

Bachelor of Computer Applications (BCA)

2021 – 2025

Prof. Rajendra Singh (Rajju Bhaiya) University (PRSU), Prayagraj

Certifications

AWS Academy Graduate — Machine Learning Foundations – Amazon Web Services

Jun 2026

20 hrs · Supervised/Unsupervised Learning, Neural Networks, NLP, Computer Vision, AWS ML Services

Artificial Intelligence Fundamentals – IBM SkillsBuild

Jun 2026

ML, Deep Learning, NLP, Computer Vision, AI Ethics [Verify on Credly](#)

Database Programming with SQL – Oracle Academy

2026

SQL, DDL/DML, JOINS, Subqueries, Aggregate Functions, DB Design & Normalization, RDBMS

Achievements & Activities

- Built 2 end-to-end **Spring Boot REST APIs** in MCA 2nd semester covering MySQL, JPA, JWT security, validation, exception handling, and complete Postman test suites
- Earned **3 industry certifications** (2026): Oracle Academy SQL, AWS Academy ML Foundations (20 hrs), IBM SkillsBuild AI Fundamentals
- Active **GitHub portfolio** with clean commit history and structured READMEs: github.com/rahulpal-codes · Daily DSA practice on LeetCode/GFG