

FAHIM UDDIN

Backend Software Engineer • Java • Spring Boot • REST APIs

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PROFESSIONAL SUMMARY

Backend-focused software engineering student with hands-on experience building secure, production-quality systems in Java and Spring Boot. Proficient in designing RESTful APIs, implementing stateless authentication with JWT and Role-Based Access Control (RBAC), and modeling relational schemas using JPA/Hibernate on MySQL. Experienced in full-stack integration with React and proficient with Docker and Git-based development workflows. ICPC Asia Regional contestant with a strong foundation in data structures, algorithms, and object-oriented design.

TECHNICAL SKILLS

Languages: Java • C • C++ • JavaScript

Frameworks / Backend: Spring Boot • Spring Security • Spring Data JPA • JPA / Hibernate • RESTful API Design • JWT • RBAC • Spring MVC

Frontend: React • JavaScript (ES6+) • HTML5 • CSS3 • Axios

Databases: MySQL • MongoDB

Tools / DevOps: Git • GitHub • GitLab • Docker • Render • Vercel • Netlify

CS Fundamentals: Data Structures & Algorithms • Object-Oriented Programming • Complexity Analysis

PROJECTS

Staniyo — Citizen Service Platform

2025–2026

Spring Boot • Spring Security • JWT • MongoDB • React • JPA/Hibernate

- **Engineered two-factor stateless authentication** by combining JWT session tokens with OTP verification, removing the need for server-side session storage.
- **Designed and enforced Role-Based Access Control (RBAC)** via Spring Security, defining strict permission boundaries for three user roles — Citizen, Officer, and Admin.
- **Built resource-oriented REST APIs** following standard HTTP semantics (GET, POST, PUT, DELETE) and integrated them with a React SPA using Axios.
- **Modeled normalized relational schema** in MySQL using JPA/Hibernate entity mappings with association constraints through Spring Data JPA.

Library Management System

2025

Java • Spring Boot • Spring Security • Spring Data JPA • MySQL

- **Secured all endpoints with Spring Security RBAC** defining separate authentication and authorization rules for Admin and Student roles.
- **Implemented full CRUD operations** across books, student records, borrowing transactions, and return management via Spring Data JPA repositories.
- **Designed normalized MySQL relational schema** with foreign key constraints and cascading operations to maintain data integrity.

Payra — Task Management Desktop Application

2025

Java • JavaFX • MySQL • JDBC

- **Developed dual-mode task workflow engine** handling both private (individual) and group (collaborative) task assignment, status tracking, and deadlines.

- **Built in-app notification system** delivering alerts on task assignments, status updates, and approaching deadlines.
- **Implemented JDBC-backed persistence layer** storing all user profiles, tasks, and group activity in MySQL across application sessions.

EDUCATION

B.Sc. in Computer Science and Engineering

Expected: Dec 2027

Southeast University, Dhaka, Bangladesh • CGPA: 3.22 / 4.00

Relevant Coursework: Data Structures & Algorithms • Database Design • Advanced Java • Computer Architecture • Discrete Mathematics • Software Engineering • Artificial Intelligence

ACHIEVEMENTS

- **ICPC Asia Regional Preliminary Contest — Participant & Certificate Holder (2024, 2025):**
Competed in the preliminary round of the ICPC Asia Regional Programming Contest, representing Southeast University — received official participation certificates both years.
- **Competitive Programming:** Active on Codeforces and CodeChef, consistently practicing algorithmic problem solving across data structures, graph theory, and dynamic programming.