Md. Firoze Hossain

Java Backend Developer | Spring Boot | Microservices

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Summary

A results-driven Java Developer with 3+ years of experience specializing in building scalable backend systems with Spring Boot and microservices architecture. Proven expertise in designing robust APIs, implementing security protocols (JWT, Spring Security), and optimizing CI/CD pipelines. Passionate about leveraging technologies like Docker, Kubernetes, and Kafka to solve complex business problems.

Work Experience

Software Developer
United Hospital Limited | Dhaka, Bangladesh | Jul 2024 - Present

- Engineered and developed core modules of a hospital management system using **Spring Boot (Java 21)** and **PostgreSQL**, improving data processing efficiency for patient management, HRM, lab, and accounting.
- Designed and implemented a base service architecture, standardizing development practices and reducing module integration time by **20%**.
- Developed the backend for the **QueueMatrix** application to manage patient flow across different counters, reducing average wait times.
- Implemented a custom audit trail system to enhance data security and ensure compliance with regulatory standards.
- Integrated advanced security protocols and encryption to safeguard sensitive patient data (PII).

Junior Software Engineer
LeadSoft Bangladesh Limited | Dhaka, Bangladesh | Aug 2022 - Jun 2024

- Developed and maintained microservices for a General Insurance platform using **Spring Boot**, reducing service coupling and improving scalability.
- Researched and integrated third-party APIs including the **Porichoy NID Server** for biometric face matching, enhancing KYC verification processes.
- Built and optimized **CI/CD pipelines using Jenkins**, automating deployment processes and reducing manual errors by **15%**.
- Conducted thorough code reviews and implemented comprehensive unit tests.

Intern
Qbytesoft | Dhaka, Bangladesh | Jan 2022 - Jul 2022

- Developed and documented **RESTful APIs** for a CRM platform using **Spring Boot**, contributing to core backend functionality.
- Collaborated on a microservices-based project, assisting in performance optimization and scalability improvements.

Projects

SmartHR – Human Resource Management System | GitHub Link

A modular, full-featured HRMS built with Spring Boot, JWT, and Hibernate.

- Architected and implemented core modules including **Employee Management, Attendance & Leave, Payroll, and Dashboard**, handling the entire employee lifecycle.
- Designed a **Shift & Roster system** with automated late/early detection algorithms.
- Engineered a **Payroll system** featuring custom salary structures, Loss of Pay (LOP) calculations, and automated PDF payslip generation.
- Implemented **Role-Based Access Control (RBAC)**.
- **Technologies**: Java, Spring Boot, Spring Security, JWT, Hibernate, PostgreSQL, REST APIs.

Certifications

- **Data Structures and Algorithms: Using Java** - Udemy | Sep 2023 | Link
- **Java Intermediates** - CodeChef | Jun 2023 | Link
- **Top-Up IT training under NASSCOM on Java** - LICT | Mar 2018 | Link
- **Learn Spring Boot in 100 Steps** - Udemy | Dec 2020 | Link
- **Master Hibernate and JPA with Spring Boot** - Udemy | May 2021 | Link
- **Angular - The Complete Guide -** Udemy | Feb 2023 | Link
- **Build Online Bank with Java, Angular, Spring** - Udemy | Jan 2021 | Link
- **Java (Basic)** - HackerRank **|** Oct 2023 | Link

Education

BSc in Computer Science and Engineering
International University of Business Agriculture and Technology (IUBAT), Bangladesh

CGPA: 3.16/4.00 | 2022

Technical Skills

- **Languages**: Java, SQL
- **Frameworks & Libraries**: Spring Boot, Spring Security, Spring Data JPA, Hibernate, JUnit, Mockito
- **API & Web Services**: RESTful APIs, OpenAPI/Swagger, JSON
- **Databases**: PostgreSQL, MySQL
- **Tools & DevOps**: Docker, Kubernetes, Jenkins, CI/CD, Git, GitHub, Linux
- **Messaging & Streaming**: Apache Kafka