MD. EMAD BHUIYAN

Java Backend Developer | Spring Boot

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Dhaka, Bangladesh LinkedIn Profile
github.com/emad001-nm Portfolio



Professional Summary

Final-year Computer Science and Engineering student at Southeast University with hands-on experience in Java backend development using Spring Boot. Skilled in developing RESTful APIs, implementing JWT-based authentication, role-based access control, email OTP verification, and Redis caching. Experienced in building full-stack applications using React, Spring Boot, MongoDB, and MySQL. Seeking a Java Backend Developer Internship or Junior Software Engineer opportunity to contribute to real-world software development projects and strengthen professional engineering skills.

Technical Skills

Programming Languages: C,C++,Java, python, JavaScript, SQL

Backend Development: Java 21, Spring Boot, Spring MVC, Spring Security, RESTful APIs, DTO-based Architecture, MVC Architecture

Security & Authentication: JWT, Authentication, Authorization, Role-Based Access Control (RBAC), Email OTP Verification

Frontend Development: React.js, HTML5, CSS3, Thymeleaf

Databases & Caching: MongoDB, MySQL, Redis

Development Tools: Git, GitHub, Postman, Maven

Core Concepts: Object-Oriented Programming (OOP), Data Structures, Algorithms, CRUD Operations, Database Management, API Integration, Caching

Technical Projects

EB Fashion – Full-Stack E-commerce Platform

Live: ebfashion.tech
GitHub Repository

React.js, Spring Boot, MongoDB, Redis, JWT

- Designed and developed a full-stack e-commerce platform using React, Spring Boot, and MongoDB.
- Developed RESTful APIs for product, user, order, and administrative operations.
- Implemented JWT-based authentication and role-based access control for ADMIN, MANAGER, and STAFF users.
- Integrated email OTP verification and Google Sign-In for user authentication.
- Implemented Redis caching to improve backend data-access efficiency.
- Developed responsive storefront interfaces and role-specific administrative workflows.

HotelBD – Hotel Management Web Application

GitHub Repository

Java 21, Spring Boot, Thymeleaf, MySQL

- Developed a hotel management web application using Java 21, Spring Boot, Thymeleaf, and MySQL.
- Implemented MVC-based application architecture with server-rendered web interfaces.
- Integrated MySQL database operations for persistent application data management.
- Applied Java OOP principles and Spring Boot features to organize backend functionality.

Skin Lesion Classification – Undergraduate Research

In Progress

Python, HAM10000, EfficientNetV2, Grad-CAM

- Working on a deep learning-based multiclass skin lesion classification research project.
- Utilizing the HAM10000 dataset containing approximately 10,015 dermoscopic images across seven classes.
- Exploring EfficientNetV2 for image classification and Grad-CAM for model explainability.
- Investigating leakage-aware evaluation and model calibration to improve evaluation reliability.

Education

Bachelor of Science (B.Sc.) in Computer Science and Engineering

Expected Graduation: 2027

Southeast University, Dhaka, Bangladesh

Academic Status: Final Year **CGPA:** 3.35 / 4.00

Relevant Coursework

Object-Oriented Programming (OOP), Data Structures and Algorithms, Database Management Systems (DBMS), Software Engineering, Computer Networks, Operating Systems, Web Engineering.

Professional Development

- Developing practical backend development skills using Java and Spring Boot.
- Exploring secure REST API development and authentication mechanisms.
- Learning database management, caching strategies, and scalable backend architecture.
- Improving software development practices through hands-on academic and personal projects.

Languages

Bangla: Native **English:** Basic Conversational Proficiency

Career Interests

Java Backend Development | Spring Boot | REST API Development | Software Engineering