Md. Rifat Ahasan Pulock

Backend Engineer | CSE undergraduate | Dhaka, Bangladesh
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Computer Science and Engineering undergraduate focused on Java/Spring Boot backend development, real-time systems, and full-stack software engineering. My work spans production-minded APIs, PostgreSQL-backed applications, WebSocket systems, AI-enabled e-commerce, and interactive ML applications.

EDUCATION

United International University

BSc in Computer Science and Engineering
2023 - February 2027 (expected) | CGPA: 3.06 / 4.00
Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Artificial Intelligence, Machine Learning, Data Mining, Digital Image Processing, Linear Algebra

SELECTED ENGINEERING PROJECTS

Eid Cricket Fest

A production-minded cricket tournament platform supporting tournament management and live scoring through a Java/Spring Boot backend and Next.js frontend.
- Integration tests start PostgreSQL automatically through Testcontainers.
- Live match updates are published on /topic/matches/{matchId}.
https://github.com/rifatahsanpul0k/eid-cricket-fest

ShopyOnline

An AI-powered PERN e-commerce application using Google Gemini for natural-language product search, PostgreSQL for relational data, Stripe for payments, and React for the customer and admin interfaces.
- Backend builds parameterized SQL WHERE clauses dynamically from active price, category, availability, rating, and text filters.
- Filtering performs a COUNT query for pagination followed by a parameterized SELECT with LIMIT/OFFSET.
https://github.com/rifatahsanpul0k/ShopyOnline

Heart Disease Prediction & Analysis

A Streamlit-based machine-learning application that loads a trained heart-disease model, accepts patient features, predicts class and probability, and presents risk information through an interactive interface.
- Repository includes a serialized optimized model, feature metadata, and the interactive Streamlit application.
- Application uses model.predict and model.predict_proba to generate both a class prediction and percentage risk probability.
https://github.com/rifatahsanpul0k/heart_desease_data_analysis

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C, C++
Backend: Spring Boot, Spring Data JPA, Hibernate, REST APIs, Spring Security, JWT, WebSocket, STOMP, Node.js, Express
Frontend: React, Next.js, Redux Toolkit, Tailwind CSS, Vite
Databases: PostgreSQL, MySQL
Machine learning: PyTorch, scikit-learn, NumPy, pandas, PCA
Engineering & tooling: Docker, Git, GitHub, GitHub Actions, Flyway, Testcontainers, Railway, Vercel, Jupyter

CERTIFICATIONS

Neural Networks and Deep Learning

DeepLearning.AI | 2026-05

Credential: JDSMSGZE6050

Supervised Machine Learning: Regression and Classification

DeepLearning.AI | 2026-03

Credential: HYA64D9EOONE

NodeJS Masterclass (Express, MongoDB, OpenAI)

Udemy | 2024-11

Credential: UC-7354ce18-fec3-4eee-9184-fd8ada16e570

Master Git and Github - Beginner to Expert

Udemy | 2024-07

Credential: UC-16db975c-e53a-49bf-b954-f8755bd5a3a6