

Abdullah Al Noman

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Professional Summary

Final-year Computer Science undergraduate with experience building full-stack web applications, JavaFX desktop systems, and AI-powered software. Interested in backend engineering, applied machine learning, and scalable software systems. Seeking Software Engineering, Backend, Full-Stack, or Machine Learning internship opportunities.

Education

United International University (UIU)

B.Sc. in Computer Science and Engineering

Dhaka, Bangladesh

Expected Oct 2026 – Jan 2027

- Relevant coursework: Data Mining, Human-Computer Interaction, Computer Security, Software Engineering, Database Systems, Data Structures & Algorithms

Technical Skills

Languages: Java, C++, C, Python, JavaScript, TypeScript, PHP, SQL

Frameworks: React, Node.js, JavaFX, FastAPI

Libraries: Tailwind CSS, Bootstrap, PDF.js, SheetJS, hls.js, Web Crypto API

Databases: MySQL, ChromaDB (vector store)

Developer Tools: Git, GitHub, IntelliJ IDEA, VS Code, Maven, XAMPP, Postman

Cloud / DevOps: Docker, Vercel, Netlify, Firebase Authentication

AI / ML: LLM API Integration, RAG, Prompt Engineering, DIAMOND/BLAST

Operating Systems: Windows, Linux

Projects

LLM-Driven Antimicrobial Resistance Gene (ARG) Detection Pipeline | *Final Year Design Project*

Python, FastAPI, DIAMOND/BLAST, ChromaDB, Gemini, RAG

- Built an end-to-end genomics pipeline combining DIAMOND/BLAST sequence alignment, retrieval-augmented generation over the CARD database, and LLM reasoning to identify antimicrobial resistance genes.
- Designed a weighted confidence-fusion model and exposed the pipeline as a FastAPI service with automated testing for end-to-end validation.

UIUonePoint – Integrated Canteen, Store & Marketplace System

Java 17, JavaFX, MySQL, JDBC, Maven

- Developed a JavaFX desktop system integrating canteen ordering, grocery inventory, and a peer-to-peer marketplace using MySQL, JDBC, Maven, and Git in a 3-person team.

MsgRef – Privacy-First AI Message Refinement Tool

React 19, TypeScript, Vite, Web Crypto API

- Built a privacy-first AI message refinement tool featuring a guided workflow, client-side AES-256 encryption, and support for Gemini, OpenAI, and Anthropic APIs.

Real-Time ICU Sepsis Early Warning System | *Data Mining Course Project*

Python, XGBoost, Time-Series Feature Engineering, SHAP

- Engineered rolling 6-hour time-series features (volatility, extremes) from ICU vitals on the PhysioNet 2019 dataset (40,000+ patients) and trained a weighted XGBoost classifier to handle 98:2 class imbalance, achieving 0.795 AUROC.
- Built a clinical simulation that detected 74.5% of sepsis cases with a median 29.5-hour early-warning lead time, and used SHAP analysis to confirm the model learned clinically meaningful septic-shock patterns.

Experience

Undergraduate Teaching Assistant (UGA)

Department of Computer Science & Engineering, United International University

Dhaka, Bangladesh

1 year

- Assisted in undergraduate lab sessions by guiding students through programming exercises and reinforcing core course concepts.
- Graded assignments and supported the instructor with course materials and student feedback.

Leadership & Activities

- Competitive Programming:** Active on Codeforces (handle: AbdullahAlNoman9999), solving algorithmic programming problems and strengthening data structures and algorithms skills.