Ahmad Maruf Hossain

Undergraduate Assistant, Computer Science and Engineering

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SUMMARY

Third-year computer science undergraduate with a record in blockchain competitions and a growing focus on human-centred AI, HCI and language technology. A self-driven builder who turns coursework into working systems and teaching material, and cares about AI that people can understand and control. Seeking research experience.

HONOURS & AWARDS: BLOCKCHAIN

Finalist, Blockchain Category 2025
Blockchain Olympiad Bangladesh 2025, Team Se7en

Third Place Jan 2025
Decentralized Edge Blockchain Competition, UIU Computer Club, Team Se7en

Best Emerging Team, Blockchain Category Jan 2025
UIU CSE FEST 2025, for Wastopia, a blockchain waste-tracking platform

RESEARCH INTERESTS

HCI	**Human-centred AI**, explainable and controllable AI, interactive ML, AR/VR, learning technology
AI	**Machine learning**, **NLP for Bangla and code-mixed Banglish**, applied AI with people in the loop
Systems	Blockchain, IoT and embedded systems

PROFESSIONAL EXPERIENCE

Undergraduate Assistant (UGA) Jul 2026 – Present
Department of CSE, United International University, Dhaka

- Assist in the **Database Management System Lab**: guide students through SQL, schema design and query writing, and prepare lab sessions
- Write **teaching resources**, including the Java Field Guide for UIU's OOP courses (CSE 1115/1116)

EDUCATION

BSc in Computer Science and Engineering 2024 – Present
United International University, Dhaka

- 8th trimester. Algorithms, OOP, Databases, Systems Analysis, AI, Software Engineering
- Mathematics: Calculus and Linear Algebra, Probability and Statistics, Discrete Mathematics

Higher Secondary Certificate (Science) 2023
Sena Public School & College, Dhaka

SELECTED PROJECTS

Shetu AI system that keeps a job intact through leave (GP FutureMakers 2026, Round 2) GitHub
PhytoCast Prevention-first plant care: ESP32 and a MobileNetV2 disease detector GitHub
Nestly Student housing and flatmate platform Live / GitHub
Field Guides Interactive Java, ML and AI-engineering guides Java / ML
Drawer 378 Searchable archive of my degree: 3,000+ files Live

SKILLS & LANGUAGES

Languages	C, C++, Java, Python, TypeScript, SQL, PHP
ML & Data	NumPy, Pandas, scikit-learn, PyTorch, TensorFlow; MySQL, PostgreSQL
Web & Tools	React, Next.js, Flask, Supabase; Git, Linux, ESP32
Spoken	English (C1, advanced), Spanish (B1), Bengali

REFERENCES

Academic references are available on request.