



Mostafizur Rahman Fahim

Graduated B.Sc. in Computer Science & Engineering AUST (2025)

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Summary

Computer Science and Engineering graduate with a strong academic foundation and hands-on experience in software development, machine learning, blockchain, IoT, and cloud computing. Passionate about building scalable systems, developing innovative applications, and conducting applied research. Skilled in both industry-focused projects (web/mobile apps, cloud, IoT) and academic research (ML, soft computing, data mining).

Education

Ahsanullah University of Science and Technology (AUST)

Bachelor of Science in Computer Science and Engineering

Dhaka, Bangladesh

Dec 2021 – Dec 2025

CGPA: 3.10/4.00

BAF Shaheen College

Higher Secondary Certificate (HSC), Science

Dhaka, Bangladesh

2018 – 2020

GPA: 5.00/5.00

Rani Bilashmoni Govt. Boys' High School

Secondary School Certificate (SSC), Science

Gazipur, Bangladesh

2016 – 2018

GPA: 5.00/5.00 (Scholarship)

Junior School Certificate (JSC)

2016

GPA: 5.00/5.00 (Scholarship)

Technical Skills

Programming Languages

C C++ Java Python C# JavaScript
PHP SQL HTML/CSS Solidity Prolog
8086 Assembly

Web & Software Development

React.js Node.js Express.js ASP.NET
Android (Java) REST APIs Three.js
PHP + MySQL

AI/ML & Data Science

scikit-learn TensorFlow PyTorch Pandas
NumPy Matplotlib Seaborn WEKA
Google Colab

Blockchain & Web3

Ethereum Smart Contracts Geth
Hyperledger Fabric IPFS Web3.js
Cosmos SDK

Databases

MySQL MS SQL Server PostgreSQL SQLite
MongoDB Firebase Realtime DB phpMyAdmin
SSMS

Cloud & DevOps

AWS (EC2, S3, IAM) Linux/Ubuntu
VirtualBox Docker CI/CD Shell Scripting

IoT & Embedded Systems

ESP32 Raspberry Pi Arduino MQTT
ThingSpeak Sensors (ECG, SpO2, Temp/Hum)
Proteus Tinkercad

Tools & Platforms

Git & GitHub VS Code Visual Studio
Android Studio MATLAB Postman
Cisco Packet Tracer LaTeX MS Office

Selected Coursework

- **Algorithms & Data Structures:** Data Structures, Algorithms, Numerical Methods, Discrete Mathematics
- **Software Development:** OOP (Java), Software Engineering, Web Technologies, Android Development
- **Systems & Architecture:** Computer Architecture, Digital Logic Design, Digital System Design, OS, Microprocessors & Microcontrollers
- **Artificial Intelligence & Machine Learning:** Pattern Recognition & ML, Soft Computing, Data Mining, AI Lab
- **Networks & Cloud:** Computer Networks, Data Communication, Cloud Computing (AWS EC2/S3)
- **Databases:** Database Systems, SQL Programming, MS SQL Server, phpMyAdmin
- **Compilers & Theory:** Formal Languages & Compilers, Automata Theory
- **IoT & Embedded Systems:** ESP32, Raspberry Pi, Embedded C
- **Computer Graphics:** 3D rendering, shaders, Three.js visualization

Projects

NexTrip: Hybrid Blockchain Ride-Sharing Platform

Thesis Project

⌚ Web App | ⌚ Mobile App

- Developed a full-stack decentralized ride-sharing system using **React.js** and a **hybrid blockchain architecture**.
- Designed on-chain logic with **Ethereum smart contracts** and off-chain private operations using **Hyperledger Fabric**.
- Built a cross-platform mobile application using **React Native (Expo)**.
- Implemented wallet integration, secure authentication, and optimized gas usage for contract calls.

Cloud Restaurant: Full-Stack ASP.NET Application

⌚ Repository

- Developed a restaurant management system using **ASP.NET**, **C#**, and **MS SQL Server**.
- Created modules for menu, orders, customers, and admin with full CRUD support.
- Designed a responsive UI using Razor pages and ensured efficient backend database integration.

Hospital Management Systems (Java & PHP)

⌚ Java Desktop | ⌚ PHP Web

- Developed two hospital management systems for patient records, appointments, billing, and staff management.
- **Java Version:** Implemented OOP-based GUI with **MySQL**.
- **PHP Version:** Built a web system using **PHP**, **HTML/CSS**, and **MySQL**.

IoT & Embedded Systems Projects

⌚ Automated Toll System | ⌚ IoT Health Monitor

- Designed an **automated toll system** with RFID, Arduino Uno, and servomotors.

- Built a **real-time health monitoring system** (ECG, SpO₂, Temp, Humidity) using ESP32 and Raspberry Pi.
- Integrated Firebase and ThingSpeak dashboards for remote IoT analytics.

Exam Enrollment System Android

Repository

- Developed a native Android app using **Java** to manage course selection and exam enrollment.

3D Building & Playground Computer Graphics

Repository

- Created a 3D scene using **Three.js** including buildings and playground structures.
- Implemented custom **vertex/fragment shaders**.

Zombie Attack 2D Game

Repository

- Built a 2D survival game using **C** and **graphics.h**.

Publications

Design and Development of a Privacy-Preserving Semi-Public Blockchain-Based Ride-Sharing System Using RAFT Consensus and IPFS Storage

2nd Author | *International Journal of Advanced Information Technology (IJAIT)*

ResearchGate Link

- Proposed a hybrid blockchain architecture integrating **RAFT consensus** and **IPFS-based secure storage**.
- Addressed challenges of gas fees, privacy, and decentralized data sharing.

A Privacy-Preserving Semi-Public Blockchain Ride-Sharing Platform with IPFS Storage

2nd Author | *2025 IEEE QPAIN*

IEEE Link | Certificate

- Presented NexTrips architecture focusing on smart contract ride matching and secure settlement.

From Data to Diagnosis: ML for Monkeypox Prediction and Surveillance

2nd Author | *2025 IEEE QPAIN*

IEEE Link | Certificate

- Evaluated ML models (CNN, SVM, DT) for clinical Monkeypox prediction.

Predicting Agricultural Land Suitability Using Deep Learning

2nd Author | *BIM 2025 Conference*

Link and certificate forthcoming

- Designed a DL-based model combining soil, climate, and geospatial data for precision agriculture.

Experience

Peer Tutor & Academic Assistant

2021–2025

AUST, Dept. of CSE

- Tutored students in **Data Structures, Algorithms, and Java**.
- Assisted students with debugging and conceptual understanding.

IT Support Volunteer

2022–2023

AUST Computer Club

- Provided tech support during events and workshops.
- Configured computers, networking devices, and AV systems.

Freelance Web Developer & Networking Technician

2023–Present

- Developed custom **PHP web applications** for small businesses.
- Designed network topologies using **Cisco Packet Tracer**.

Certifications & Training

Web Development Bootcamp

2025

FreeCodeCamp & Scrimba

Advanced Graphics Design

2016

Universe Computer Training Centre

Office Productivity Suite

2014

Universe Computer Training Centre

AWS Cloud Foundations (Training)

2024

Amazon Web Services

Cisco Networking Essentials (Training)

2023

Cisco Networking Academy

MATLAB Onramp

2024

MathWorks

Activities

- Active member of the **AUST Computer Club**; participated in workshops and tech seminars.
- Volunteered in university tech events and competitions.
- Regular participant in inter-department football tournaments.
- Contributed to open-source projects on GitHub.

Additional Information

Languages: Bangla (Native), English (Professional)

Interests: Open-source, hackathons, robotics, football, cricket

References: Available upon request