

MD. MINHAJ ROWFUN RABBI ANIK

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PROFESSIONAL SUMMARY

Computer Science and Engineering undergraduate at American International University-Bangladesh (AIUB) with hands on experience in software engineering, cybersecurity, IoT and backend development. Experienced in designing scalable web applications, enterprise systems, embedded solutions and secure REST APIs using Java, Spring Boot, ASP.NET Core, Python, PHP and SQL. Cisco CCNA, DevNet Associate and Network Security certified with IEEE-published research project and strong foundation in networking, secure software development and problem solving. Passionate about building innovative technology solutions while continuously expanding technical expertise.

EDUCATION

American International University-Bangladesh (AIUB) Bachelor of Science (BSc) in Computer Science and Engineering (CSE) CGPA: 3.80/4.00	2023 – Present
Birshreshtha Munshi Abdur Rouf Public College (BMARPC) Higher Secondary School Certificate (HSC) in Science GPA: 5.00/5.00	2019 – 2021
Birshreshtha Munshi Abdur Rouf Public College (BMARPC) Secondary School Certificate (SSC) in Science GPA: 4.94/5.00	2017 – 2019

TECHNICAL SKILLS

- Programming Languages: C, C++, C#, Java, Python, JavaScript, PHP
- Frameworks: .NET, Spring Boot
- IoT & Embedded Systems: Arduino, ESP32
- Operating Systems & Security Tools: Linux, Windows, Bash, PowerShell
- Web & Cloud: Firebase, Nginx, Netlify, Vercel, jQuery, SQLite, Render
- Networking & Security: Access Control List (ACL), Zone-Based Policy Firewall, CTF
- Development Tools: Android Studio, IntelliJ IDEA, Visual Studio, Figma, OpenCV, Git, GitHub, Trello

PROJECTS

International Conference on Fire Safety and Compliance (FireSnC) • Developed, managed and deployed the official web platform (https://firesnc.org) for the international conference, facilitating user navigation, abstract submissions, schedules and researcher engagement.	Full-Stack / Web Portal
Cafeteria Management System • Built a three-tier Cafeteria Management System using ASP.NET Core MVC and Entity Framework Core with SQL Server, featuring wallet recharge, transaction audits and automated bulk refunds.	C# / ASP.NET Core
Fish Farm Pro • Designed an IoT-based vertical aquaculture monitoring system with a live web dashboard and machine learning-based prediction for water quality and fish farming productivity. Findings are published in IEEE Xplore.	IoT / Web Dashboard / ML
Trimatric Medi-Stock Manager • Built a role-based hospital management system (Admin, Moderator, Staff) using PHP MVC architecture and MySQL, integrating medical inventory tracking, patient serial registration and diagnostic payment logging with AJAX-powered live search and CRUD operations.	PHP / MySQL
Pharmacy Management System • Developed a full-featured Pharmacy Management REST API with Spring Boot 4 and Java 25, implementing JWT authentication, RBAC, MySQL-backed medicine inventory, supplier management and order processing with buy/return workflows.	Java / Spring Boot
Gold Mine Safety System • Built an IoT-based mine safety monitoring system with WiFi communication, real-time water level control and dangerous gas detection, automatically triggering water supply and lighting based on detected conditions.	IoT / Sensor Automation

Jonotar Haat Bazaar

C# / .NET Framework

- Developed a desktop super shop inventory and point-of-sale system with C# WinForms and MS SQL Server, featuring role-based access (Admin/Employee), dynamic checkout with real-time stock validation, thermal-style receipt printing and exportable sales analytics.

GlobalSync Bonus System

Java / Spring Boot

- Engineered a secure enterprise Spring Boot REST API to automate annual employee performance tracking, multi-KPI score evaluation and transactional bonus distribution using Spring JDBC.

Digital Attendance System

IoT / Fingerprint / RFID

- Built a multi-mode attendance system supporting fingerprint, RFID card and key-based authentication, with real-time status output on a display monitor.

Gesture Controlled Reporting Car

IoT / Robotics

- Engineered a hand gesture-controlled moving car for news reporting scenarios, designed as a low-cost, ground-based alternative to drone camera coverage.

Emergency Blood Bank Management System

Java / Java Swing

- Developed a desktop-based Emergency Blood Bank Management System using Java Swing and object-oriented programming, featuring role-based access control, donor and receiver management, blood inventory tracking, emergency blood request processing and an intuitive graphical user interface for efficient blood bank operations.

IoT Weather Monitoring System

IoT / Blynk

- Built a real-time weather monitoring system integrated with Blynk for a mobile first IoT experience, delivering live environmental data to a smartphone app.

Gesture & Voice-Controlled Home Automation

IoT / Gesture & Voice Recognition

- Developed a bulb on/off control system using hand gesture and voice recognition for hands-free home automation.

Elevator Control System

Digital Logic Circuit Design

- Designed a digital elevator control system for a Digital Logic Circuit Lab course, using priority encoders, D flip flops, comparators and 7 segment displays to implement floor tracking, target storage and movement logic through sequential and combinational circuit design.

IoT Traffic Light Automatic Control System

IoT / Embedded Systems

- Built an IoT-based automatic traffic light control system to regulate signal timing and reduce congestion at intersections without manual intervention.

Car Racing Game

Python

- Created a 2D car racing game with randomized obstacle spawning, real-time level scaling and persistent leaderboards, packaged as a single-file portable executable.

Gen Z Social Media Addiction Analysis

Data Analysis

- Analyzed survey data to explore whether constant connectivity correlates with lower life satisfaction, comparing productive versus mindless usage patterns among Gen Z.

PROFESSIONAL DEVELOPMENT

Grameenphone Academy - Certificate of Excellence

2025 – 2026

- Completed 13 courses spanning AI and professional skills: Expert AI Generalist, AI Career Edge, AI Workflows and Agents, Gen AI & Prompt Engineering, AI-Powered Communication, AI Hacks for a Winning CV, AI + Super presentations, Zero-Code App @ Vibe Coding, Humanizing AI Experiences, Design System in Figma, Network Smarter with AI, Personal Branding in AI Era, Communicate with Confidence and Test Hacks to Get Hired

International Cybersecurity Webinar - Tech Secure 2.0

Aug 2025

- Attended "Advanced Red Teaming Practical," a webinar on modern cyber threats and defense strategies

PUBLICATIONS

- "Fish Farm Pro: Sustainable Vertical Aquaculture Practices for Improving Fish Farming Productivity in Bangladesh" - IEEE Xplore Link: ieeexplore.ieee.org/document/11545944

CERTIFICATIONS

- Cisco Network Security
- Cisco CCNA: Introduction to Networks
- Cisco CCNA: Switching, Routing and Wireless Essentials
- Cisco CCNA: Enterprise Networking Security and Automation
- Cisco DevNet Associate
- Cisco IT Essentials

LANGUAGES

Bengali (Native/Bilingual) • English (Professional Working) • Hindi (Limited Working) • Urdu (Limited Working) • Arabic (Elementary)

AWARDS & HONORS

- Token of Appreciation for successfully presenting a paper in the Technical Session at the 2026 IEEE 2nd International Conference on Quantum Photonics, Artificial Intelligence & Networking (QPAIN), organized by IEEE Photonics Society Bangladesh Chapter
- 1st Prize, Annual Science Fair (2014), Birshreshtha Munshi Abdur Rouf Public College (BMAPRC)

INTERESTS & ACTIVITIES

- Building and experimenting with IoT and embedded systems projects
- Enjoys system administration work: managing updates, access control and backups, troubleshooting issues and monitoring servers and networks
- Capture The Flag (CTF) competitions and cybersecurity research related work
- Competitive programming
- Active open-source contributor: 22 public repositories and 36 stars on GitHub (github.com/iammrranik), earning Pull Shark, Pair Extraordinaire and Quickdraw achievements for collaborative contributions

REFERENCES

Dr Md Kamrul Hassan

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Western Sydney University (WSU)
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