

ALFAZ UDDIN

Computer Science & Engineering Student | Developer | Research Enthusiast

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🐙 <https://github.com/alfaz-uddin>

🌐 <https://alfaz-uddin.github.io/alfaz-portfolio/>

Professional Summary

Computer Science and Engineering student with hands-on experience in full-stack software development, artificial intelligence applications, research and product development. Founder and Lead Developer of AIUB Connect, a student-driven digital platform delivering academic services, productivity tools and community resources.

Experienced in designing, developing, deploying and maintaining production-ready web applications while leading technical teams and managing real-world software projects. Passionate about Community Solutions, Healthcare AI, Machine Learning, Human-Centered Computing and building scalable digital solutions with measurable social impact.

Education

American International University-Bangladesh (AIUB)

Bachelor of Science (B.Sc.) in Computer Science & Engineering

2023-current

CGPA: **3.30**

Jashore Shikkha Board Govt. Model School and College

Higher Secondary Certificate (HSC)

2019 – 2021

Narikelbaria High School, Bagherpara, Jashore

Secondary School Certificate (SSC)

2014 – 2019

Technical Skills

Programming Languages

C++, Java, C#, Python, JavaScript, PHP, HTML, CSS

Databases

MySQL, Oracle

Artificial Intelligence

Machine Learning, OCR, AI-assisted Development, Healthcare AI, Digital Biomarkers

Tools

Git, GitHub, VS Code, Linux VPS, XAMPP, Postman

Core Competencies

Software Engineering, Full-Stack Development, Database Design, UI/UX Design, Technical Documentation

Soft Skills

Project Management, Leadership, Team Collaboration, Public Speaking, Problem-Solving, Community Management

Experience

Founder & Lead Developer

AIUB Connect

aiubconnect.com

2025 – Present

- Founded and lead the development of AIUB Connect, a student-driven digital platform providing academic tools, productivity services and community resources for university students.
- Designed and developed production-ready full-stack web applications.
- Architected and implemented an integrated ecosystem including Academic File Sharing, Course Planner, OCR-based Routine Management, Marketplace and Student Dashboard.
- Managed product planning, software architecture, deployment, feature releases and long-term platform maintenance.
- Administer Linux VPS infrastructure ensuring high availability, security and continuous service improvements.
- Improved student accessibility to academic resources through centralized digital services supporting thousands of potential users across the university.

Founder & Director General

OVIJATRI

- Founded a youth-focused educational and innovation platform promoting leadership, collaboration and creative learning.
- Organized educational programs, technology initiatives and community engagement activities.
- Led strategic planning, volunteer coordination and project management across multidisciplinary teams.

Academic Competencies

- Object-Oriented Programming
- Data Structures & Algorithms
- Database Systems
- Software Engineering
- Artificial Intelligence
- Machine Learning
- Advanced Web Technologies
- OO Analysis & Design
- Research Methodology
- Human-Computer Interaction

Projects

AIUB Connect

- Founded and continue leading the development of a comprehensive student platform supporting academic services and campus life.
- Developed modules including Academic File Sharing, Course Planner, OCR-based Routine Management, Student Dashboard and Marketplace.
- Designed scalable database architecture, authentication workflows, administrative dashboards and responsive user interfaces.
- Deployed and maintained the platform on a Linux VPS.

HealthGuard

- AI-powered healthcare solution prototype for AIUB Spark – Idea Pitching Competition.
- Proposed intelligent healthcare services integrating digital technologies for accessibility and patient engagement.
- Selected as a finalist during the innovation competition.

HealthMate — Hospital Management System

- Developed a Java-based desktop application for managing patients, doctors, appointments, billing and hospital records.
- Implemented the principles of OOP.

Hotel Management System

- Developed a C# desktop application for hotel reservations, room availability, guest check-ins/check-outs and billing.
- Integrated database support for guest records, room inventory and booking history.

Campus Marketplace

- Built a web-based marketplace enabling students to buy and sell products within the university community.
- Implemented user authentication, product listings, category filtering and responsive interfaces.

Connect Esports

- Developed Esports tournament management platform supporting player registration, team management, match scheduling and event coordination.
- Designed an intuitive interface for participants and organizers.

Academic File Sharing Platform

- Designed and deployed a centralized academic file sharing platform integrated with AIUB Connect.
- Implemented categorized uploads, intelligent search, download management, secure file storage and administrative moderation.

Research Experience

Independent Researcher

- Conduct research in Artificial Intelligence with emphasis on Healthcare AI, Machine Learning, Human-Centered Computing, Medical Informatics and Digital Health.
- Investigate AI-assisted healthcare solutions, digital biomarkers, multi-modal learning systems and intelligent decision support for disease detection and monitoring.
- Perform literature reviews, survey-based studies, review studies, data analysis, academic writing and scientific presentation following international research standards.

Research Interests

- Artificial Intelligence
- Healthcare AI
- Machine Learning
- Digital Biomarkers
- Human-Centered Computing
- Medical Informatics
- Software Engineering
- Full-Stack Development

Conference Presentations

International Conference on Applied Statistics and Data Science (ICASDS 2025)

- Presented the research titled "*A Statistical Study on How AI-Assisted Learning Enhances Students' Critical Thinking Skills.*"

International Conference on Challenges and Trends in Arts and Social Sciences (ICCTASS 2025)

- Presented the research titled "*Mental Health Matters: A Survey-Based Study on University Students' Experiences, Challenges and Policy Implications.*" (Received Special Mention Award)

Achievements & Recognition

- Special Mention Award — ICCTASS 2025.
- Finalist — AIUB Spark Idea Pitching Competition (HealthGuard).
- Founder and Lead Developer of AIUB Connect.
- Designed and deployed multiple production-ready software systems supporting university students and academic communities.

Leadership & Volunteering

President

International Youth Change Maker

- Led district-level volunteer initiatives focused on youth empowerment, leadership development and community engagement.
- Organized educational events, awareness campaigns and collaborative social impact activities.

Additional Volunteer Experience

- Youth Parliament Bangladesh
- Keya Students Forum-Bangladesh
- Community and Student Engagement Initiatives

Founder & Director General

OVIJATRI

- Established a youth-driven educational and innovation platform promoting leadership, creativity and lifelong learning.
- Managed organizational planning, project execution, partnerships and volunteer coordination.

Certifications

- DataCamp - Understanding Machine Learning, Introduction to Data Literacy, Large Language Models (LLMs) Concepts, Introduction to Data Culture, Introduction to Python, Python (Programming Language), Introduction to SQL, Understanding Data Engineering, Understanding Cloud Computing, Understanding Data Science, Introduction to Data, Understanding Prompt Engineering, Introduction to AI Agents, AI Ethics, Introduction to AI for Work, Generative AI Concepts
- Cisco IT Essentials
- LinkedIn Learning - Marketing Solutions Fundamentals
- 10 Minute School - Presentation & Public Speaking, Communication Secrets

Languages

- **Bengali** – Native Proficiency
- **English** – Professional Working Proficiency

References

Available upon request.