

FAIZA MALIAT

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Education

Islamic University of Technology (IUT)

Bachelor of Science - Software Engineering | CGPA-3.45

Relevant Coursework: Machine Learning, Artificial Intelligence, Web Development, Object-Oriented Programming, Software Engineering, DSA, Software Specifications and Requirements.

Aug 2022 – Present

Dhaka, Bangladesh

Work Experience

Web Development Intern | Sharksss Capital Inc.

2025-Present | Remote

- Building full-stack web application using MERN stack and designing API endpoints.
- Collaborating remotely to develop and enhance system functionalities, mainly frontend.

Technical Projects

CodERA – AI-Driven Programming Language Learning Platform [Live Demo]

JavaScript | MERN Stack | Socket.io

- Developed a full-stack learning platform offering coding lectures, quizzes and user progress tracking.
- Implemented responsive UI and integrated real-time interaction using WebSocket communication (Socket.io).

PlantCare – ML Tool [GitHub]

Python | Machine Learning | Streamlit

- Built a machine learning based web tool for plant disease detection using image classification.
- Trained deep learning models on two datasets and developed the interface using Streamlit.
- Represented visualization on user-friendly dashboards using Heatmaps (Grad-CAM).

Soulace – Mental Health and Well-being Application [Live Demo]

React.js | Node.js | MongoDB

- Hackathon-winning project offering mood and sleep tracking, AI chatbot and community engagement.
- Developed a mental health support and journaling assistant using AI for conversational interaction.
- Used MongoDB for storing user entries and emotional logs; responsive UI designed in Tailwind CSS.

HomeConnect – Rental Management System[GitHub]

C# | .NET Framework

- Developed a Windows desktop application for rental property listings and tenant data management.
- Implemented rental tracking and search features using Windows Forms.

Skills

Languages:

C, C++, Python, JavaScript, Java, HTML/CSS, SQL, MongoDB, C#

Frameworks & Tools:

Mern Stack, Next JS, Git/GitHub, Postman, Figma, AutoCAD, Notion, Miro, Jira

AI / Machine Learning:

Numpy, Pandas, Scikit-learn, Deep Learning Models, TensorFlow, Model Training, XAI (Grad-CAM), CV, One-Cycle Policy

Soft Skills:

Mentoring, Collaborating, Research, Communication

Research Publications & Certifications

- **Publication:** Co-Author - “Optimizing Waste Classification Using Transfer Learning and One Cycle Policy with Grad-CAM-Based Explainability” – IEEE QPAIN Conference, 2025 [Certificate]
- **Certification:** Machine Learning Specialization - Stanford University & DeepLearning.AI (Coursera), 2024.
- **Training:** National Math Camp - Bangladesh Mathematical Olympiad; Elevating Girls in Competitive Programming - Bangladesh Open Source Network(BdOSN).

Awards & Achievements

- **Hackathon:** Winner - Dhaka Divisional Hackathon Technocrats-V.2 Runner-up (2024) [Link]
- **Competition:** Inventious 4.1-Project Showcasing-Finalist (2025)
- **UI/UX:** IUT ICT Fest UXparkle - Participant (2024)
- **International:** IYMC Pre-Finalist (2021)
- **National:** BdMO Winner (2017), BdPhO Winner (2017)
- **Olympiad:** Winner: BdMO, BdPhO, BdJSO, NHSPC, BdOI, Creative Talent Hunt(CTH)

Leadership Experience

Academic Team Member | Bangladesh Mathematical Olympiad Committee

Nov 2022 – Present

Secretary of Event Management | IUT Photographic Society

Oct 2022 – Present

Senior Mentor | Dinajpur Math Club

Jan 2021 – Present