

Faysal Ahmmed

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CAREER OBJECTIVE

Motivated researcher in computer science, specializing in machine learning, data science, and robotics. Skilled in literature reviews, coding for research projects, and authoring academic papers. Passionate about problem-solving, innovation, and developing intelligent automation, IoT solutions, and user-friendly software.

EDUCATION

Certificate	Major	Institute	Grade	Year
BSc in CSE	Information Technology	American International University-Bangladesh	3.99/4.00	2025
HSC	Science	Rajshahi Shikkha Board Model School and College	5.00/5.00	2020
SSC	Science	Mobarokpur High School	5.00/5.00	2018

SKILLS & ABILITIES

- Programming Languages:** C++, C#, Java, Python, JavaScript, React.js
- Frameworks & Technologies:** TensorFlow, Keras, PyTorch, ASP .NET MVC Framework
- Databases:** SQL Server, MySQL, PostgreSQL, Redis
- Tools & Platforms:** Microsoft Office, GitHub, Postman, Google Colab, LaTeX, AutoCAD
- Operating Systems:** Windows, Linux (Ubuntu), MacOS
- Soft Skills & Expertise:** Creativity, Critical Thinking, Problem Solving, Leadership, Quick Learner

PROFESSIONAL EXPERIENCE

- JUNIOR BACKEND DEVELOPER** JAN, 2026-MAR, 2026
Zorg IT
- Developing a scalable Lead Management System using NestJS, PostgreSQL, Prisma, Redis, BullMQ, and Swagger.
 - Designed and implemented a RAG-based architecture for retrieving relevant product data efficiently with hybrid search capabilities.
 - Working with Agentic AI systems to enable context-aware, decision-driven automated responses.
- RESEARCHER (Part-Time)** JAN, 2025-DEC, 2025
American International University-Bangladesh Research Lab
Supervisor: Professor Dr. Md. Firoz Mridha
- Developed and implemented code for various research projects.
 - Served as a primary writer for research papers.
 - Collaborated with faculty and peers to advance research objectives.
 - Guided and mentored other research members in their projects and paper writing.
- JUNIOR WEB DEVELOPER (INTERN)** JUL, 2025-OCT, 2025
Goinnovior
- Developed backend REST APIs for a mental health application using ASP.NET and MySQL.
 - Designed and managed database structures to support secure and efficient data handling.
 - Collaborated with the team to integrate backend services with application requirements.
 - Designed a responsive portfolio website for the CEO using React and Tailwind CSS.

AWARDS & ACHIEVEMENT

- Dean's List Honors for 8 times at American International University-Bangladesh
- Awarded an 80% Academic Scholarship on tuition fees at American International University–Bangladesh.
- Awarded Best Thesis in Artificial Intelligence (Medical Sector) at American International University–Bangladesh.

PUBLICATIONS

- GRANet-Lite: A Lightweight Ghost-Residual Attention Network for Breast Cancer Classification with Comprehensive Histopathological Preprocessing Analysis. [\[Link\]](#)
- CBAM-Xception: An Attention-Guided Framework for Skin Cancer Classification. [\[Link\]](#)
- BTdiagAI: A Web-Deployed Hybrid Framework for Brain Tumor Classification Using Optimized MRI Preprocessing and Deep Learning Fusion. [\[Link\]](#)
- Explainable Ensemble Learning with Stain Normalization and Deep Feature Extraction for Acute Lymphoblastic Leukemia Classification. [\[Link\]](#)
- Arduino-Controlled Multi-Function Robot with Bluetooth and nRF24L01+ Communication. [\[Link\]](#)
- ParkinNet: a Novel Approach to Classifying Alzheimer's and Parkinson's Diseases Using Brain Structural MRI. [\[Link\]](#)
- TR-IncepResNet: A Template Registration Guided Inception-ResNet Framework for Robust Brain Tumor Detection. [\[Link\]](#)
- Lightweight, Stain-Normalized White Blood Cell Classification with Explainability and Web-Deployed Prototype. [\[Link\]](#)

PROJECTS

DriveVault – Multi-Account Cloud Storage Router [\[Live\]](#)

Technologies: NestJS, React, PostgreSQL, Prisma, Redis, OAuth, Google Drive API, JWT

- Unified multiple Google Drive accounts into a single virtual storage with smart upload routing based on real-time quota analysis.
- Implemented secure streaming file operations and encrypted OAuth-based authentication for scalable cloud management.

Skin Cancer Detection System with XAI [\[Github\]](#) [\[Live\]](#)

Technologies: Python, Deep Learning, VLM, CNN, Grad-CAM++

- Built novel Segmentation Model, trained and evaluated 40 DL models, achieving 99 % accuracy
- Built an interpretable model using Grad-CAM visualizations with fine-tuned LLM (MED-GEMMA) explanation

Hungry Heroes – Food Ordering System [\[Link\]](#)

Technologies: C#, Windows Forms, SQL

- Multi-user desktop app supporting Admin, Manager, Owner, Customer & Guest roles
- Features include order management, restaurant controls, profit tracking, theming, and secure login

Library Management System [\[Link\]](#)

Technologies: ASP.NET MVC, C#, MySQL, API Integration, Email Services

- Developed a feature-rich library system with user registration, book request/return, and email alerts for unavailability and late returns
- Enabled admin to manage users, books, and inventory; guests can only browse available books
- Implemented secure password recovery using email verification and integrated APIs

Super Mario Clone Game [\[Link\]](#)

Technologies: C++, OpenGL (GLUT)

- Developed a 3-stage Mario-style 2D game with sound, score system, and customizable lives

REFERENCE

Md. Abdul Halim

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Prof. Dr. Md Firoz Mridha

Professor, Department of Computer Science

American International University-Bangladesh

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