

MD. SHOAIB SHAHRIA

281096.alif@gmail.com | +8801776595404 | freakyalif.me

BSc in Computer Science and Engineering - United International University

PROFILE

Computer Science graduate with strong hands-on experience in machine learning, data engineering, and software development through academic and team projects. Led multiple technical projects - building data pipelines, deploying ML models, and developing applications. Skilled at translating complex problems into practical solutions. Eager to deliver production-ready work in a collaborative industry environment.

EDUCATION

United International University BSc in Computer Science and Engineering, CGPA: 3.43/4.00	Dhaka, Bangladesh Feb2026
Govt. Shah Sultan College, Higher Secondary Certificate (HSC), GPA: 5.00/5.00	Dhaka, Bangladesh 2020
BIAM Model School & College Secondary School Certificate (SSC), GPA: 5.00/5.00	Bogura, Bangladesh 2018

RESEARCH

TBX-Enhance: A Deep Learning Based Low-Dose X-Ray Enhancement Framework for Tuberculosis Detection

Ongoing

Technologies: Opencv, GAN, Python, DenseNet-121, U-NET

BengalDeltaFish: A local dataset for fish detection in Bangladeshi markets

Data in Brief | <https://doi.org/10.1016/j.dib.2025.111764>

Technologies: Roboflow, YOLO

BDFish: An application for fish detection in Bangladeshi markets

Under Review

Technologies: Kotlin, YOLO, ultralytics, Roboflow

Eco-Friendly Inference: Energy Savings through Prompt Compression

Under Review

Technologies: Ollama, Transformers, Python3

PROJECTS

Doctor Station | *Champion, Project Show in Microprocessor and Microcontroller Lab* | [Video](#)

- Developed an IoT device that acts as an AI doctor to provide basic medical suggestions, aiming to prevent medical scams in rural areas.
- Achieved optimal responses for patient assistance through prompt tuning of a Large Language Model (LLM).
- **Frontend:** React | **Backend:** Flask, Groq API (Llama-3.3 70B model) | **Hardware:** Raspberry Pi 3, Arduino, ESP 32, sensors. [Video Link](#)

Bibliophiles Corner | *Academic Project* | github.com/281096alif/bibliophilesCorner_SE

- Developed a platform for book enthusiasts to explore, discover, and review books.
- Enabled users to write and share reviews, fostering community interaction and engagement.
- Designed a simple and user-friendly interface to enhance user experience.
- **Tech Stack:** HTML, CSS, JavaScript, PHP, Bootstrap, MySQL | **Testing:** Selenium

Unravel | *Academic Project* | github.com/281096alif/unravel

- Developed a platform for book enthusiasts to explore, discover, and review books. An intelligent project management system that streamlines organizational hierarchy, task tracking (Kanban & Gantt), and employee performance evaluation with ranking and reporting features.
- Enhanced with smart AI-assisted task assignment, automated reminders, task breakdown, and real-time collaboration tools to boost team productivity and efficiency.
- **Tech Stack:** PHP, HTML, CSS, JavaScript, MySQL | **Testing:** Selenium

TECHNICAL SKILLS

Programming:

Python, C/C++, JavaScript, PHP, Java (JavaFX)

Web:

HTML, CSS, JavaScript,

Bootstrap, Tailwind CSS, React.js

MySQL, MongoDB

AI integration in web applications

ML/DL:

TensorFlow, PyTorch, scikit-learn

OpenCV, Roboflow

YOLO (Object Detection)

Tools:

Git, GitHub, Docker

Netlify, Vercel, Firebase

Jupyter Notebook, Google Colab

Operating Systems & Environments:

Ubuntu, Kali Linux, Parrot OS, PiOS

Networking & Security (Basic/Intermediate):

Packet analysis using Scapy (Python)

Wi-Fi monitoring and penetration testing tools

(Airodump-ng, Aireplay-ng, Wifite)

Hardware & Embedded Systems:

Arduino, ESP32

Raspberry Pi