

RAKIB HASSAN

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PROFESSIONAL SUMMARY

As a final year Computer Science student with a strong interest in backend development and applied AI. I have worked on projects involving Python, Django, computer vision, and data analysis, and enjoy building systems that turn data into practical solutions. Through personal projects, I have learned how backend services, APIs, and AI models work together in real applications.

PROJECTS

AI Vehicle Detection System | **Python, YOLOv8, OpenCV**

- Build with Object Detection segment using base form of [Ultralytics](#).
- To object tracking for traffic analysis use cases implemented YOLOv8
- Designed the system to be integrated into backend services for data aggregation and reporting.

Deforestation Analysis using satellite | **Python, Google Earth Engine API, Landsat**

- Use Time frame of 25 year and collective for a long period alongside GEE API
- Generated analytical outputs suitable for integration into dashboards or reporting systems.

Airport Entrance Management System | **Java, JavaFX, MySQL**

- Designed and developed a desktop system with secure role-based access control.
- Built a relational database for passenger logs, user accounts, and daily reports.
- Focused on data integrity, authentication flow, and operational reliability.

AccessX | **Frontend, Self-hosted Backend**

- Designed a controlled security-testing framework for reconnaissance and phishing simulations, in a word it's a Cyber Recon & Simulation Framework
- Focused on secure communication, system orchestration, and test-environment isolation.

Quantum Computing Research | **Qiskit, Python, Jupyter Notebooks**

- Explored foundational quantum algorithms including Quantum Teleportation, Deutsch Jozsa, and Grover's Search.
- Implemented quantum circuits in Qiskit and executed them on IBM Quantum backends. superposition, entanglement, and noise behavior on NISQ devices

Work Experience

IT Technical Assistant – Area Operations

Foodpanda, Lalmatia, Dhaka

June 2021 – December 2021

- Provided technical support for riders, vendors, and operational teams.
- Configured and maintained mobile devices, tablets, and vendor POS systems.
- Resolved application, connectivity, and hardware issues in live environments.
- Coordinated with central IT for escalations and issue tracking.
- Trained vendors and staff on platform usage and troubleshooting.

SKILLS

Backend & Data

Django (basic REST APIs, authentication), MySQL, MongoDB, server-side flow

AI & Analytics

YOLOv8, OpenCV, Google Earth Engine, NDVI formulas, data preprocessing

Programming

Python, Java, C/C++, basic C#, Kotlin

Tools & Platforms

Git/GitHub, VS Code, Android Studio, Linux Server (Debian & Arch), Windows, Windows Server

EDUCATION

B.Sc. in Computer Science & Engineering (Major in Cyber Security)

Daffodil International University

Expected Graduation: **September 2026**

Higher Secondary Certificate (Science)

2018-2020

Bangladesh Air Force Shaheen College, Kurmitola

GPA: 5.00/5.00

Secondary School Certificate (Science)

2016-2017

Bangladesh Tea Research Institute High School, Sreemangal

GPA: 5.00/5.00

ADDITIONAL INFORMATION

Certifications & Recognition

- Team Leader, 2nd Prize – SPARK: *Startup Competition* (Team Farmex)
- Community contributor – Parrot OS (Asia), handle: Log66:deadbrat

Leadership & Volunteering

- Team Leader, Dhaka Marathon (2023, 2024)
- Completed cycling across 61 districts of Bangladesh within 2 months

Languages

- Bangla (Native)
- English (Fluent)
- Russian (Russian – A2 (actively studying, 56-day continuous streak))
- Romanian (A1 beginner; basic reading and phrases)