

# RAKIB HASSAN

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## PROFESSIONAL SUMMARY

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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

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### 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

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### 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

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### 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

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### 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

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### 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)