

Md.Rabby Khan

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in rabbyKhan 🌐 rabbykn44

Personal Statement

Computer Science student with strong backend development experience using Python (Django), complemented by solid frontend skills in React.js. Passionate about building robust, scalable web applications with a focus on clean architecture and maintainability. Experienced in integrating both automated and manual quality assurance processes to ensure high-quality software delivery. Eager to contribute to innovative projects and continuously grow technical expertise.

Education

Green University of Bangladesh, Computer Science and Engineering

Sept. 2021 to Ongoing

- CGPA: 3.48/4.0 ([Transcript](#))

Experience

Working with Team Super Nova

Uttara, Dhaka

September 2024 – Ongoing

- **Role:** Python Developer
- **Project Name:** Alpha Fit Ness
- **Project Type:** Django-based Ecommerce Platform (EduTech & Fitness)
- **Key Technologies:** Django, Python, PostgreSQL/MySQL, JavaScript, REST APIs

Spokesperson, GUB Transport Committee

Green University of Bangladesh

March 2024 – Present

- Representing student voices in transport matters
- Coordinating between students and university administration
- Ensuring effective communication for logistics

Webinar Demonstrator

IEEE GUB Student Branch, Green University of Bangladesh

May 2025

- Presented as a **key demonstrator** in the webinar “*Cyber Existence of Professional Skills for a Graduate*” hosted by IEEE GUB on May 30, 2025. ([Join Link](#))

Class Representative

Green University of Bangladesh

January 2023 – Present

- Connecting students and faculty to ensure effective academic communication
- Organizing and coordinating class-level academic activities
- Facilitating updates, feedback, and notices between students and departments

Applied Researcher

Nixtec Systems, Bangladesh & Netherlands (Remote)

October 2024 – Present

- Focused on blockchain-based applications and research
- Engaged in cross-border collaboration on secure systems
- **Skills:** Blockchain, Distributed Systems, Smart Contracts

Trainee

GUB EDGE Digital Skills Development Program, Dhaka, Bangladesh (On-site)


September 2024 – April
2025

- **Skills:** Python (Programming Language), Web Development, Software Development, Information Technology Infrastructure

Research Publications

Development of Blockchain-based Framework for Certificate Verification and Fraud Prevention

Accepted at the 12th International Conference on Informatics, Electronics & Vision (ICIEV), March 2025

Authors: Md Rabby Khan, Md Dulal Hossain, Mostak Ahammed [[Paper link / \]](#) 

Focused on blockchain-based certificate verification to ensure security, transparency, and fraud prevention in academic and professional credentialing.

Projects

Smart Healthcare System [Github Link](#)

Python
Dec. 2024

Machine Learning Project

- Technologies: Python, Machine Learning, Web Development
- Developed a machine learning-based web application for disease prediction.
- Integrated personalized recommendations, including medications, diet plans, and workout routines.
- Implemented an intuitive UI for easy user interaction.

Maze Solver [Github Link](#)

Java
Jan. 2023

Algorithm Lab Project

- Finds the shortest path in a maze using DFS, BFS, and A-Star.
- Java GUI for visualization and user interaction.
- Allows setting start/end points, adding obstacles, and choosing algorithms.
- Educational tool for understanding pathfinding concepts.

Operating System Algorithm Simulator [Github Link](#)

Operating Language
Jun. 2024

Shell Scripting Project

- Technologies: Shell Scripting / Bash
- Simulated CPU Scheduling Algorithms (FCFS, SJF, Round Robin, etc.).
- Implemented Contiguous Memory Allocation (First Fit, Best Fit, Worst Fit).
- Developed Page Replacement Algorithms (FIFO, LRU, Optimal).

Group Chat Application Using Java [Github Link](#)

Java
Jun 2024

Computer Networking Lab Project

- Java-based group chat application for real-time communication using socket programming.
- JavaFX for the GUI and multi-threading for concurrent handling of users.
- Supports user login, text messaging, image sharing, and emojis.
- Server manages connections, message broadcasting, and ensures scalability.

Error Detection and Correction System [Github Link](#)

Java
Oct. 2023

Data Communication Project

- Simulates error detection and correction in data transmission.
- Uses techniques like Bit Stuffing, Parity Check, CRC, and Hamming Code.
- Focuses on ensuring data integrity in communication systems.
- Implemented using C++ for efficient processing and simulation.

E-Commerce Website: DigitalMart [Github Link](#)

HTML, Vanilla CSS, Vanilla,
PHP, JavaScript, MySQL,
Bootstrap and others
Jun. 2024

Web Programming Lab Project

- DigitalMart is an e-commerce platform built with HTML, CSS, JavaScript, PHP, and MySQL, offering features like search, cart, and checkout.
- Rigorous testing ensured reliability, but scalability and security remain challenges.
- Future updates include advanced search, recommendations, and a mobile app.

Balloon Shooting Game [Github Link](#)

Assembly language
Oct. 2023

Assembly Lab Project

- A balloon shooting game where players move and shoot arrows.
- Shoot falling balloons and avoid 9 misses.
- Built in Assembly Language with text-based graphics.

AI Voice Assistant [GitHub Link](#)

Python
Jun. 2024

Artificial Intelligence Lab Project

- Developed a voice assistant for tasks like weather updates and music control.
- Used Python, Tkinter, speech recognition, and pyttsx3.
- Included voice commands, text input, and audio responses.
- Focused on ease of use, speech accuracy, and privacy.

Playfair and Vigenère Cipher Visualizer [GitHub Link](#)

Web Development
Dec. 2024

Cyber Security Project

- Web tool for Playfair and Vigenère cipher encryption/decryption.
- Built with HTML, CSS, and JavaScript.
- Features interactive UI, Playfair 5x5 matrix, and Vigenère encryption.
- A functional tool to visualize classical cryptography.

Skills

Python Training: Actively engaged in Python projects in the GUB EDGE Digital Skills Development Program. **(Ongoing)**

Programming Languages: Java, Python, C/C++, Assembly

Web Programming: HTML, JavaScript, PHP, ReactJS, CSS

Database: MySQL

Software Tools: VS Code, LATEX, Netbeans, Visual Studio, AutoCAD, CodeBlocks, Notepad++, Cisco Packet Tracer, EMU8086


Frontend Frameworks: Bootstrap, Tailwind, Material-UI

Backend Frameworks Tools: NodeJS v20, ExpressJS, NestJS, GraphQL, TypeORM

Class Representative: Connecting students and faculty.

Key skills: leadership, organization, teamwork.

Additional Experience And Awards

- IEEE Computer Science Member (Bangladesh) [Certificate Link](#) 
- Awarded for participation in Mathematics and Biology Olympiads during college
- Awarded for excellence in recitation during college events
- Actively participated in dance and other cultural events at college
- Member of CSE T-10 Cricket Tournament 2024 as a player (last year) at the university

Hobbies and Interests

- Enjoy playing cricket and watching movies and TV series.
- Passionate about reading suspense novels.
- Love traveling and have explored most of the districts in my country.

Reference

Name: Dr. Muhammad Aminur Rahaman
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Name: Dr. Md. Ahsan Habib (Tareq)
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