

# Md Akib Hasan

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## Career Objectives

To secure a challenging position in a dynamic organization where I can leverage my strong foundation in computer science and engineering, problem-solving abilities, and hands-on experience with software development projects. I aim to contribute to innovative solutions in areas such as web and mobile applications, networking, while continuously enhancing my technical skills in programming, frameworks, and emerging technologies like parallel computing, cloud computing, and computer security. As a recent graduate, I am eager to apply my knowledge to real-world challenges, collaborate in team environments, and grow into a proficient software engineer or developer.

## Educational Qualification

### **Bachelor of Science in Computer Science and Engineering (BSc. in CSE)**

**Institution:** Chittagong University of Engineering and Technology (CUET), Chattogram

**Duration:** February 2020 – August 2025

**CGPA:** 3.77 (out of 4.0)

### **Higher Secondary Certificate (H.S.C.) in Science Group**

**Institution:** Notre Dame College, Dhaka

**Duration:** July 2017 – May 2019

**GPA:** 5.00 (out of 5.00)

### **Secondary School Certificate (S.S.C.) in Science Group**

**Institution:** Siraj Uddin Sarker Vidyaniketan and College

**Duration:** 2015 – 2017

**GPA:** 5.00 (out of 5.00)

## Projects

### **University Management System (2025)**

- Designed and developed a comprehensive database management system tailored for university administration, enabling efficient storage, retrieval, and management of critical data related to students, courses, faculty, and enrollments.
- Utilized PostgreSQL as the backend database to ensure robust data integrity and scalability, integrated seamlessly with a Django-based web framework for handling complex queries and operations.

- Implemented a full suite of RESTful API endpoints supporting Create, Read, Update, and Delete (CRUD) functionalities, which were rigorously tested using Postman to verify reliability, performance, and error handling.
- Tools and Technologies: Django (Python web framework), PostgreSQL (deployed via Docker for containerization), Postman (API testing), and Python (core programming language). This project demonstrated my ability to build secure, efficient systems for data-driven applications, simulating real-world educational management scenarios.

### **Black Board (2025)**

- Engineered a real-time, multi-user collaborative drawing web application that allows multiple participants to draw simultaneously on a shared digital canvas, with changes synchronized instantly across all connected clients to provide a seamless collaborative experience.
- Incorporated WebSocket technology for low-latency communication, enabling live updates without page refreshes, which is ideal for educational, brainstorming, or creative sessions.
- Developed the frontend using JavaScript, HTML5 Canvas for rendering graphics, and CSS for responsive design, while the backend handled connection management and data broadcasting.
- Technology Stack: Go (for backend server and WebSocket handling with Gorilla WebSocket library), JavaScript (client-side interactivity), HTML5 (canvas element), and CSS (styling). This project highlighted my skills in real-time web technologies and user-centric application design.

### **E-Code Verifier (2024)**

- Created a cross-platform mobile application designed to assist users in extracting and analyzing ingredient information from packaged food products by scanning E-Codes (additive identifiers), promoting informed dietary choices based on health, religious, or ethical preferences.
- Followed a structured software development lifecycle, incorporating features such as two-step user authentication for security, E-Code scanning via device camera, real-time verification through integrated APIs, and classification options (e.g., halal, haram, vegetarian, or allergy alerts) to customize user experience.
- Integrated external data sources for accurate ingredient details, ensuring the app provides reliable, up-to-date information while maintaining user privacy and data efficiency.
- Tools and Technologies: Flutter (for cross-platform UI development), Firebase (for authentication, database, and cloud functions), and REST API integration from OpenFoodFacts (for ingredient data retrieval). This app showcased my expertise in mobile development and API-driven applications.

### **SmartHaat (2023)**

- Built a full-stack web application aimed at facilitating the buying and selling of livestock, specifically targeting farmers, traders, and buyers in rural and agricultural communities to streamline market transactions.
- Adhered to systematic software development phases, from requirements gathering to deployment, implementing key features including product listings with image uploads, advanced search and filtering options, shopping cart functionality, order management system, secure user authentication, an admin panel for oversight, and a blog for community updates.
- Ensured a user-friendly interface with responsive design, focusing on accessibility for non-technical users while incorporating secure payment gateways and data validation to prevent errors.
- Utilized Technologies: Django (backend framework), Vue.js (frontend framework), and RESTful APIs (for communication between frontend and backend). Based on GitHub details,

this was developed as lab work for an Internet Programming course, emphasizing practical application of web technologies.

## Technical Skills

**Programming Languages:** Python, C++, C, Go, JavaScript, Java

**Frameworks & Libraries:** Django, React, Bootstrap, Flutter, Vue.js

**Tools & Technologies:** Git (version control), REST API (design and integration), SQL (database querying), Docker (containerization), Linux (operating system proficiency), Postman (API testing), Firebase (cloud services)

**Software Design Principles:** SOLID (object-oriented design), Design Patterns (e.g., MVC, Singleton), Agile Methodologies

**Other:** Web Development (HTML5, CSS), Machine Learning Basics (scikit-learn, TensorFlow), Data Processing (NumPy, Pandas)

## Problem Solving Profile

Demonstrated strong analytical and algorithmic skills by solving over 300 problems on competitive programming platforms, including LeetCode (focus on data structures and algorithms), Codeforces (rated contests), HackerRank (challenges in various domains), AtCoder (Japanese-style problems), and UVa Online Judge (classic problems). This experience has honed my ability to optimize code for efficiency, debug complex issues, and think critically under time constraints, preparing me for technical interviews and real-world software engineering challenges.

## Language Proficiency

Proficient in English (speaking, reading, and writing) as the primary medium of instruction in education and projects. Basic proficiency in Bengali (native language).

## Other Skills

- Strong problem-solving and logical reasoning abilities, evidenced by competitive programming achievements.
- Team collaboration and leadership, as demonstrated in group projects and code management (e.g., Git repo handling).
- Quick learner with adaptability to new technologies, such as containerization with Docker and cloud integration.
- Effective communication skills for technical documentation and presentations.
- Time management and project planning, following software development lifecycles in all major projects.

## Interests

Parallel Computing, Cloud Computing, Computer Security, Machine Learning, and Open-Source Contributions.

## Personal Information

Name : Md Akib Hasan  
Father's Name : Md Ziaul Hasan  
Mother's Name : Dilara Jahan  
Present Address : Flat#4D, House#17/14, 3 Saitantuli Bazar Road, South Anandanagar, Badda, Dhaka-1212  
Permanent Address : House#143, Gorongol Rajpasha Road, Sekherhat, Jhalokathi Sadar, Jhalokathi-8404  
Date of Birth : 14 April 2002  
Birthplace : Jhalokathi  
Nationality : Bangladeshi (by birth)  
National ID : 7380149950  
Religion : Islam  
Sex : Male  
Marital Status : Unmarried  
Blood group : B+  
Height : 5'9"

## Reference

### Md. Shafiul Alam Forhad

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### **Md Jahedi Hasan**

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I do hereby state that the above statements are authentic to the best of my knowledge.



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MD AKIB HASAN