

# MOHAMMAD KAMRUL HASAN

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## Education

Bangladesh University of Engineering and Technology

Bachelor of Computer Science and Engineering

Expected Graduation: April 2030

Dhaka, Bangladesh

## Work Experience

DeveOfE

Sep 2019 – May 2023

Founder and Lead Developer

Dhaka, Bangladesh

- Developed and maintained the organization's **WordPress blog**, improving page load speed and achieving **90+ scores** on performance scans.
- Led backend development for **cburst.ml**, designing a high-performance **FastAPI & PostgreSQL** backend capable of handling high concurrency, improving response time and scalability
- Designed and secured **cburst.ml** using **Express.js**, achieving **OWASP Top 10 security compliance** and top marks in vulnerability scans.

## Projects

CloudBurst URL Shortener | Source Code

ExpressJS | FastAPI | PostgreSQL

- Developed a **high-performance** URL shortener with **FastAPI & PostgreSQL**
- Utilized security scanners (**Sucuri, GTmetrix, New Relic Ping**) to analyze and improve **API & web app** security.

The Mystic Menu API | Website | Source Code

FastAPI | Supabase | Gemini

- Built a Python **FastAPI**-based API, integrating **Supabase** for secure authentication.
- Designed a **LLM-powered** recipe generator, dynamically generating recipe descriptions based on user inputs.

NDESC-API | Source Code

Tinyhttp | Typescript | Firebase

- Developed a **TypeScript**-based **RESTful API**, ensuring **efficient data handling** and seamless integration.
- Implemented **CI/CD pipelines** with **GitHub Actions**, automating deployments and reducing manual effort on local machine

ML-Based Rainfall Prediction

Python | Scikit-learn | Matplotlib | NumPy

- Trained an ML model to classify **real-life rainfall data**, testing **multiple algorithms** (Regression, SVM, Decision Trees).
- Improved accuracy to **85%+** by **feature engineering & hyperparameter tuning**.
- Applied **linear algebra & probability concepts** for ML-based rainfall prediction and algorithm optimization

## Technical Skills

**Languages & Frameworks:** Python (Intermediate), TypeScript (Intermediate), C (Intermediate), Assembly (Beginner), FastAPI (Intermediate), Express.js (Advanced)

**Technologies & Tools:** PostgreSQL (Beginner), Supabase (Beginner), GitHub Actions (Intermediate), CI/CD (Intermediate), Reverse Engineering (Beginner)

**Other:** API Development (Advanced), Security Best Practices (Intermediate), Performance Optimization (Intermediate)