

TAMZEED MAHFUZ

📍 Dhaka, Bangladesh

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 [Portfolio](#) [Github](#)

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SUMMARY

A **full stack developer** and **research enthusiast** with interest in system design, natural language processing, computer vision. Currently expanding knowledge in respective fields. Pursuing opportunities in software development projects, research works and machine learning fields.

PROJECTS

CareForAll

- Developed and deployed [CareForAll](#), a medical donation platform built using **microservices** architecture
- Used **FastAPI** for backend services and **NextJS** for frontend, , **Postgres** as database for each microservice.
- Employed **Kafka** for event driven architecture, **gRPC** for inter service communication.
- Implemented observability stack using **Prometheus**, **Grafana**, **Loki**, **Jaeger**.
- Built CI/CD pipeline using **github actions**, deployed on DigitalOcean **Kubernetes**.

Foodhub

- Created and deployed [Foodhub](#), a web-platform for foodlovers. Implemented the entire project following standard **microservices** architecture.
- Used **Spring Boot** and **FastAPI** for backend, **NextJS** for frontend.
- Implemented full CI/CD pipeline using **github actions**, and deployed the entire project on Google **Kubernetes** Engine.

Ecom-app

- Developed and deployed ecom, a demo **microservices** e-commerce app.
- Used **FastAPI**, **NextJS**, **gRPC**, **Kafka**, **Prometheus**, **Grafana**
- Containerized with **Docker** and deployed on DigitalOcean **Kubernetes**

Chain Reaction

- Developed and deployed [Chain Reaction](#), a 3D, 2 player game with AI agent implemented.
- Used the **Unity** Game Engine to develop game environment, isolated AI agent implementation on separate server built using Java **Spring Boot**.
- Deployed on [UnityHub](#) and **Render**.

Notes

- Built and deployed [Notes](#), a personal note-keeping companion.
- Used **Django Rest Framework** for [backend](#), and **NextJS** for [frontend](#), **Supabase** for database.
- Deployed on **Vercel** and **Render**.

EDUCATION

2022 - Present | Bangladesh University of Engineering and Technology

Bachelor of Science in Computer Science and Engineering

2019 - 2022 | Notre Dame College

Higher Secondary School Certificate

LANGUAGES

- Python
- Java
- C++
- Javascript

TECHNICAL SKILLS

- Node
- Django
- FastAPI
- Spring Boot
- NextJS
- Flutter
- Postgres
- Docker
- Kubernetes
- Microservices & DevOps
- Unity
- Machine Learning

ACHIEVEMENTS

- • **Champion** at **API AVENGERS – Microservice Hackathon** under **ETE Televerse 1.0**, organized by CUET.
- • **Top 5** teams at **IEEE VIP Cup 2025** among worldwide participants.
- • **Finalist** at **KUET Bitfest Datathon 2025** among countrywide participants

PUBLICATIONS

- • Collaborated on paper **“Too Late to Train, Too Early To Use? A Study on Necessity and Viability of Low-Resource Bengali LLMs” (COLING 2025)**. Learning natural language processing.
- • Worked on paper **“Efficient Real-Time Video Colorization on Low-End CPUs via Pruning and Quantization”**. Learning computer vision.

LIBRARIES

- Pytorch
- Tensorflow
- Pandas
- Numpy
- Transformers
- OpenCV
- vLLM