TAMZEED MAHFUZ

UNDERGRADUATE

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SUMMARY

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

TECHNICAL SKILLS

Python	C++	Node	ReactJS	Docker	Machine Learning
Javascript	C#	Django	NextJS	Unity	DevOps
Java	SQL	Springboot	Flutter	Kubernetes	Research Assistant

PROJECTS

- 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**.
- Created 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.

HARDWARE PROJECTS

- Created an **Autonomous Rubik's Cube Solver machine**, capable of solving any input scramble in under **60 seconds**. Used ATMEGA32 microcontroller. Demo

EXPERIENCE

Research assistant

- Worked under supervision on paper "**Too Late to Train, Too Early To Use? A Study on Necessity and Viability of Low-Resource Bengali LLMs**" here. Learning natural language processing.
- Worked under supervision on paper "**Efficient Real-Time Video Colorization on Low-End CPUs via Pruning and Quantization**" here. Learning computer vision.

EDUCATION

Bachelor of Science in Computer Science and Engineering　　　　　　　**November 2022 - present**

Bangladesh University of Engineering and Technology