

Tanvir Mahmud

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Skills

Languages: Python, C/C++, Java, JavaScript

Backend & Frameworks: FastAPI, SQLAlchemy, SQLite, REST API Development, Object-Oriented Programming (OOP)

Technologies: Git, GitHub, MySQL, Data Structures & Algorithms

Additional: Technical Writing, Adobe Photoshop, Adobe Premiere Pro, Canva, and Figma

Work Experience

Independent University, Bangladesh

Jan 2023 - Present

Undergraduate Teaching Assistant

- Teach Introduction to Computer Programming (Python) and Algorithms
- Assist students with programming concepts and algorithm implementation

Microsoft

Sep 2023 - Present

Beta Microsoft Learn Student Ambassador

- Host Cloud Skills challenges on the Microsoft Learn platform
- Conduct sessions on Azure, GitHub and other Microsoft technologies.

Freelance

2022 – Present

IELTS Tutor

- Provide personalized IELTS preparation for speaking, writing, reading, and listening modules
- Develop customized study plans tailored to student needs and target scores
- Conduct mock tests and give detailed performance feedback
- Help students achieve desired band scores for university and immigration goals

Education

Independent University, Bangladesh

Expected Aug 2026

B.Sc. in Computer Science and Engineering

CGPA: 3.81/4.0

Minor in Robotics and Intelligent Machine

Relevant Coursework: Numerical Methods, Machine Learning, Artificial Intelligence, Image Processing, Robotics, Data Structures, Algorithms, OOP

Projects

AI-Powered Python Tutor

Full Stack Developer

- Implemented speech-to-text and text-to-speech features using Web Speech API for seamless voice conversations
- Built RESTful APIs with FastAPI backend and integrated Google Gemini AI for intelligent tutoring responses
- Created responsive React frontend with continuous conversation mode and auto-speech functionality
- **Tech Stack:** React, ShadcnUI, FastAPI, Python, Google Gemini AI, SQLite, Web Speech API, Tailwind CSS, JWT

Demand and Supply Analysis for Agricultural Products

Team Leader and Full Stack Developer

- Developed agricultural analytics platform for tracking demand and supply in Bangladesh
- Built real-time market analysis dashboard with price forecasting
- **Tech Stack:** React Router, ShadcnUI, MySQL, PHP, Next.js

Awards and Achievements

- **NASA Space Apps Challenge 2024:** 1st Runner-up and Global Nominee
- **ICPC Dhaka Regional 2024:** Finalist
- **National Collegiate Programming 2023:** Finalist
- **Inter University Programming Contests:** Finalist in SUST IUPC 2023, IUT IUPC 2023, UIU IUPC 2024
- **Algorithm Designing Contest, TechFest:** 1st Runner-up
- **UIU Inter University Blockchain Olympiad:** Finalist
- **5th International Robo Tech Olympiad:** 1st Runner-up
- **KUET Bitfest Datathon 2024:** Ranked 47th/108 (Individual)
- **National Data Analytics Competition (NDAC-2025):** Finalist
- **ICT Olympiad 2024:** Semi-Finalist
- **Intra IUB Programming Contest:** Champion (Junior), 5th Overall