Shakawat Hussen Tuhin

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I'm a motivated and detail-oriented Computer Science Engineering student with a strong foundation in *Python*, *AI application development*, and *large language models (LLMs)*. I'm passionate about building AI-driven solutions, from *chatbot* interfaces to agent-based systems, and I love experimenting with new technologies. I enjoy working with prompt engineering, *NLP*, and machine learning frameworks, constantly pushing myself to learn and improve. I'm excited about the opportunity at HTEC, where I can contribute to cutting-edge AI projects, refine my expertise in LLM integration, and grow in a fast-paced, innovative environment.

EDUCATION

University of Pécs | Computer Science Engineering

Sep. 2022 - Jan. 2026

Pécs, Hungary

M.C. College Sylhet | High School

Sep. 2019 - Jan. 2021

Sylhet, Bangladesh

PROJECTS

Chatbot: Built a chatbot using *FastAPI* and OpenAI's GPT-3.5-turbo API, gaining experience in backend development, prompt engineering, and integrating large language models into interactive web applications. Demo | GitHub

Bachelor's Thesis: Developing a web app with PWA using *NLP* for real-time translation and speech synthesis between Sylheti, Bengali, and English. Integrate Whisper by OpenAI for speech-to-text, *PyTorch* for translation, and *Google TTS* for text-to-speech, addressing the lack of digital tools for Sylheti. Demonstrate expertise in *NLP*, mobile app development, and backend systems to bridge communication gaps.

MIK Hub website - Python, Svelte: Developed the **MIK Hub** website using *Python & Svelte* to serve as a central platform for engineering students at the University of Pécs, providing resources, event updates, and academic support. GitHub

URL Shortener - Python: Developed and deployed a full-stack URL shortening web application using *Flask*, featuring random URL generation, SQLite storage, efficient redirection, and a user-friendly interface, with deployment on Vercel for public accessibility. Demo | GitHub

Store Management System - C: Developed a C-based store management program with inventory tracking, billing, invoicing, and secure user access using structs and file handling for transaction management. GitHub

Car Service Application – C#: Developed a C# application for managing car service records, appointments, and customer data, incorporating scheduling, service tracking, and data storage with object-oriented principles. GitHub

SKILLS

AI & Machine Learning: Generative AI principles & models, Natural Language Processing (NLP), Large Language Model (LLMs), Machine Learning Frameworks (TensorFlow, PyTorch), Speech to Text & Text to Speech (TTS), Low-Resource Language Processing, Building custom datasets for LLMs (for Sylheti language translation), Vector Databases for NLP.

Programming: Python, SQL, Cloud platforms, JavaScript, Java

Framework and Libraries: Flask, C# Dot Net, React.Js, Spring Boot

Web Design: HTML, CSS, Bootstrap, Tailwind, Svelte

Tools: Git, PyCharm, VS CODE, SQL Management Studio, PL/SQL

Databases: Oracle, MySQL, MSSQL, Advanced SQL, T-SQL.

ORGANIZATIONAL SKILLS

Mentor Selector (2024-2025): Selected mentors for the Stipendium Hungaricum Mentor Network and the International Mentor Program at the University of Pécs, ensuring a supportive environment for international students.

Stipendium Hungaricum Mentor (2024-2025): Provided guidance and mentorship to Stipendium Hungaricum students at the University of Pécs, assisting with academic and social integration.s

International Mentor, University of Pécs (2023-2024, 2024-2025): Mentored new international students at the University of Pécs, offering support in adapting to university life and fostering a welcoming community.

Divisional Coordinator – National Debate Federation Bangladesh (2019-2022): Led debate initiatives in Sylhet, organizing National and Divisional Debate Festivals, Leadership Camps, and Quiz Competitions, while assisting schools and colleges in establishing debate clubs.