

# Shakawat Hussen Tuhin

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## EDUCATION

**University of Pécs** | Computer Science Engineering Sep. 2022 - Jan. 2026, *Pécs,Hungary*

- Corrected Credit Index: 4.7 (2023/24/2), 3.5 (2024/25/1); **Semester Average: 5.0** (2024/25/1); Cumulative Average: 4.34

## Experience

**IT Help Desk Support | Shabuj Global Education, Sylhet Branch**  
2021-2022 | Sylhet, Bangladesh

- Helped staff fix computer, software, and network problems via phone and email, learning IT support skills.
- Set up laptops and user accounts for new employees, assisting with onboarding.
- Wrote guides for common tech issues, creating a help resource for the team.
- Managed multiple support requests daily, prioritizing tasks to ensure timely resolution in a fast-paced environment.

## RELEVANT COURSEWORK SKILLS

**Databases:** Oracle(advanced SQL, PL/SQL), MySQL, MSSQL (T-SQL), PostgreSQL(experienced with ETL workflows)

**Data Structure & Algorithms, Software Development**

**Programming:** Python, Javascript, TypeScript, C#, Java.

**Framework and Libraries:** Flask, FastAPI, Django, Svelte, React.Js, Spring Boot

**Testing & Automation:** Pytest (unit and integration testing), Postman (API testing), Python(experienced in scripting)

**Tools:** Git, Postman, PyCharm, VS Code, SQL Management Studio, Oracle SQL Developer, Linux command-line, Vercel.

**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.

## PROJECTS

**Chatbot | FastAPI, OpenAI:** Configured a chatbot with FastAPI and OpenAI's GPT-3.5-turbo, tested with Pytest/Postman, optimizing user interaction flows. [Demo](#) | [GitHub](#)

**Bachelor's Thesis | PWA, NLP, Oracle:** Developing a progressive web app with real-time translation and speech synthesis for *Sylheti, Bengali, and English*, using *PyTorch* and *PostgreSQL databases(supabase)*.

Implemented *PL/SQL* procedures and triggers for efficient data management and *logging*, showcasing Oracle application development and backend expertise. [GitHub](#)

**YouTube Channel Performance Tracker | SvelteKit, Node.js:** Built a SvelteKit dashboard with YouTube API and Chart.js for channel analytics visualization, tested with Postman. [Demo](#) | [GitHub](#)

**URL Shortener | Python:** Created a URL shortener, tested with Pytest and Postman, adaptable to MySQL/PostgreSQL. [Demo](#) | [GitHub](#)

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## Leadership & Activities

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### **Founder, MIK Hub | Faculty of Engineering and IT**

2024-Present | Pécs, Hungary

- Launched a platform to enhance digital communication and resource sharing among IT students, fostering collaboration.

**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. [certification](#)

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

**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.