Tahsinul Haque Dhrubo

Software Engineer

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🔗 Tahsinul Haque Dhrubo 🌐 https://th-dhrubo-portfolio.vercel.app

CARRER OBJECTIVE

- I am a software engineer passionate about machine learning, data science, and AI and eager to develop innovative, data-driven solutions to real-world problems. I aim to blend software engineering expertise with advanced analytics and AI to create impactful applications that drive meaningful change and benefit society. I strive to work with a dynamic team to push technological boundaries while ensuring ethical and inclusive advancements.

EDUCATION

2020 - 2024
- **B.Sc., BRAC University**, Computer Science.
  Thesis title: *Bridging Worlds: Enhancing Low-level Sign Language Recognition and Seamless BdSL-to-Bengali Conversion with Sequential LSTM Innovation*

SKILLS

Programming Languages	**Python**, **JavaScript**, **TypeScript**, Go, Java ,C++, NodeJS, Ruby on Rails
Machine Learning and AI	TensorFlow, Keras, PyTorch, Scikit-learn, Numpy, Pandas, Matplotlib, Mediapipe, OpenCV, YoloV5, Seaborn
Databases	MySQL, PostgreSQL, MongoDB, Prisma
Web Development	HTML, CSS, **ReactJS**, **Tailwind CSS**, **NextJS**, Flask, **FastAPI**, **Django**, PHP
Operating System	**Windows**, **Kali Linux**
Academic	Academic Research, Teaching, LateX
Others	Git, Docker, Selenium(Automation), Kafka

EXPERIENCES

Jan 2023 - Jan 2024
- **Full Stack Developer**, TNC Global Ltd

Oct 2020 - Mar 2022
- **Senior Member (Control and Sofware)**, BRACU Mongol Tori

MY RESEARCHES

Bridging the Communication Gap: A Custom Transformer Encoder Stack Model for Bangladeshi Sign Language Translation

- Developed a Custom Transformer Encoder Stack Model to bridge the communication gap between hearing individuals and the deaf, achieving high accuracy in translating Bangladeshi Sign Language (BdSL) and advancing NLP techniques for improved sign language interpretation.

Bengali AI Chatbot | GitHub

- An offline system designed to understand and respond to human queries in Bengali. This project allowed me further to explore the intricacies of Deep Learning and NLP, solidifying my desire to advance in Artificial Intelligence.

- Accepted for Publication in International Conference on Computing Advancements 2024 (ICCA)

Bridging Worlds: Enhancing Low-level Sign Language Recognition and Seamless BdSL-to-Bengali Conversion with Sequential LSTM Innovation | GitHub

- Developed a model translating Bengali Sign Language into readable Bengali text. This project involved creating our dataset and utilizing technologies like Mediapipe, LSTM, and OpenCV, which has been a testament to my passion for creating adaptable and impactful technological solutions.

- Accepted for Publication in International Conference on Computing Advancements 2024 (ICCA)

Securing the Pharmaceutical Supply Chain Using Blockchain

- Hyperledger Fabric to secure supply chain information and AI to detect fraud, aiming to create a transparent and accountable system. This project highlighted the potential of combining blockchain and AI to solve real-world problems, achieving 276 reads and a 3.9 research interest score on ResearchGate.

TECHNICAL PROJECTS

TaskList | GitHub

- Developed a website with Go in the backend and NextJS in frontend
- Created for a job assessment. Click here to visit

Chakri Khujo - Job Posting Website | GitHub

- Made for job search and posting
- MERN Stack

SoloNest | GitHub

- Django and Tailwind CSS
- Implemented payment gateway

Predicted Routine | GitHub

- Developed with Selenium and FastAPI
- To ease students' pressure

Controller with Socket Programming | GitHub

- Made with Python
- Control System for a rover

AWARDS & ACHIEVEMENTS

International

2023	**100 Problems solved on LeetCode. [ID- Exile404]**
2022	**3rd Kibo Robot Programming Challenge (Kibo-RPC) [Won Crew Award]**
2021	**2nd Kibo Robot Programming Challenge (Kibo-RPC) [Runners-up][Won Crew Award]**
	Honorable Mention in ICPC2021

National

2024	**Finalist in Robi Datathon 3.0 powered by AWS**
2022	**Finalist in Bangladesh Blockchain Olympiad 2022**
2021	**BRAC University Intra University Programming Contest 2021 (Champion)**
	BRAC University Intra University Hackathon [Runners-up]

INTEREST & HOBBY

Interest	Learning new Programming Language and Tech, Research and Analysis
Hobby	Reading Books, Gaming

REFERENCES

- Dr. Farig Yousuf Sadeque, Associate Professor. Email: farig.sadeque@bracu.ac.bd
- Dr. Muhammad Iqbal Hossain, Associate Professor. Email: iqbal.hossain@bracu.ac.bd