

# Tahsinul Haque Dhrubo

Software Engineer

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🌐 Tahsinul Haque Dhrubo

🌐 <https://th-dhrubo-portfolio.vercel.app>

🔗 Exile404

## CARRER OBJECTIVE

- Looking ahead, I am eager to explore how Machine Learning, Deep Learning, and AI can be applied to solve complex, real-world problems, particularly those that have been traditionally overlooked due to technological limitations. My goal is to contribute to research that not only pushes the boundaries of what Machine Learning, Deep Learning, and AI can achieve but also ensures that these advancements are inclusive and beneficial to society at large.

## EDUCATION

- 2020 - 2023    **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	<b>Python, JavaScript, TypeScript</b> , 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, <b>ReactJS, Tailwind CSS, NextJS</b> , Flask, <b>FastAPI, Django</b> , PHP
Operating System	<b>Windows, Kali Linux</b>
Academic	Academic Research, Teaching, LateX
Others	Git, Docker, Selenium(Automation), Kafka

## EXPERIENCES

- Jan 2023 - Jan 2024    **Full Stack Developer**, TNC Global Ltd
- Mar 2020 - Nov 2022    **Director of Communications**, BRAC University Response Team
- Oct 2020 - Mar 2022    **Senior Member (Control and Software)**, 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**

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### **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

### **E-Ticketing | [GitHub](#)**

- Made for Bus, Train, and Plane
- Made with HTML, CSS, Javascript & PHP

### **Controller with Socket Programming | [GitHub](#)**

- Made with Python
- Control System for a rover

## **AWARDS & ACHIEVEMENTS**

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|------|---|---|
| 2024 | 🏆 | <b>Finalist in Robi Datathon 3.0 powered by AWS</b>                                 |
| 2023 | 🏆 | <b>100 Problems solved on LeetCode. [ID- Exile404]</b>                              |
| 2022 | 🏆 | <b>3rd Kibo Robot Programming Challenge (Kibo-RPC) [Won Crew Award]</b>             |
|      | 🏆 | <b>Finalist in Bangladesh Blockchain Olympiad 2022</b>                              |
| 2021 | 🏆 | <b>2nd Kibo Robot Programming Challenge (Kibo-RPC) [Runners-up][Won Crew Award]</b> |
|      | 🏆 | <b>BRAC University Intra University Programming Contest 2021(Champion)</b>          |
|      | 🏆 | <b>BRAC University Intra University Hackathon[Runnersup]</b>                        |
|      | 🏆 | <b>Honorable Mention in ICPC2021</b>  |

## **REFERENCES**

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