

Galib Mahmud Jim

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About Me

I'm a passionate full-stack software developer with over a year of hands-on experience building user-friendly, responsive web and mobile applications. I've worked with a variety of languages, including C, C++, Java, Python, and JavaScript. My expertise also extends to building and integrating Machine Learning solutions, and I'm eager to keep learning and contributing to teams that create innovative, high-impact technology.

Professional Experience

Machine Learning Engineer

Nov 2025 – Present

Penta Global Ltd.

- Developed an automated workflow for collecting and processing construction and architectural project data to support the ML pipeline.
- Collaborated with the BIM team to integrate workflows and ensure smooth data coordination.

Junior Software Engineer

Feb 2025 – Apr 2025

Data Elysium Software Inc.

Remote

- Contributed to the development of **Affordable AI**, a pay-as-you-go chatbot platform integrating multiple large language models (LLMs), including OpenAI.
- Implemented web preview and PDF handling features, improving user interaction and usability of the chatbot platform.
- Integrated and optimized diverse LLM APIs, enabling modular chatbot behavior adaptable to varied user needs.

Projects

DiaRisk

Nov 2024 - Mar 2025



Diabetes Early Prediction using Machine Learning for Risk Assessment

- **Summary:** Developed an ensemble machine learning model to predict Type 2 Diabetes using a dataset from Birdem General Hospital, Bangladesh. Optimized model performance through data preprocessing and hyperparameter tuning. Built an Android application for users to interact with the model and receive diabetes risk assessments.
- **Backend Stack:**
 - **Language:** Python
 - **Frameworks:** FastAPI
 - **Database:** MongoDB
 - **Containerization:** Docker
- **Mobile Application Stack:**
 - **Framework:** Flutter
- 🔄 DiaRisk

Bangladesh | Save The World

Feb 2024 - Mar 2024


A Plastic Pollution Awareness Portal

- **Summary:** This portal was developed as part of a research collaborative initiative between the University of Dhaka and East West University, Bangladesh, which raises awareness about plastic pollution and advocates for sustainable solutions.
- **Stack:** Next.js
-  [savetheworld-bd](#)
-  www.savetheworld-bd.org/

Learning-Hub

Mar 2024 - Jul 2024


A learning management platform for coding enthusiasts.

- **Summary:** A web application for online learning with user and admin functionalities. Users can create and access courses and quizzes, while admins manage content and user accounts.
- **Stack:** React, FastApi, MongoDB
-  [Learning-Hub](#)

DropTel

Aug 2023 - Nov 2023

Expense tracking mobile application.

- **Summary:** DropTel, an innovative expense tracking mobile application, offers a user-friendly design and comprehensive functionalities, providing a practical solution for individuals and groups managing finances during various events.
- **Stack:** Flutter, MongoDB
-  [DropTel](#)

Skill-set and Technology

- **Languages:** C, C++, Java, Python, Kotlin, Dart, JavaScript, TypeScript.
- **Framework/Libraries:** FastAPI, React, NodeJS, Flutter, Next.js
- **Database:** PostgreSQL, MySQL, MongoDB, Firestore, Firebase Realtime Database.
- **Tools:** Git, Docker.

Education

University of Dhaka
BSc in Computer Science and Engineering

Dhaka, Bangladesh
Jan 2020 - Feb 2025

Miscellaneous Activities

- Competitive programming contests.
- Enthusiastic about strategic and multiplayer games.