Mohd. Jamal Uddin Mallick Tahmid

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LinkedIn — GitHub

Technical Skills

Programming Languages: C/C++, Python, Java, JavaScript, TypeScript, Go
Frontend Technologies: React, NextJS, React Native Expo, Electron, HTML, CSS
Backend Technologies: Express, Spring Boot, FastAPI, Firebase, RESTful APIs, GraphQL
Databases: PostgreSQL, MySQL, MongoDB, Redis
AI/ML Frameworks: TensorFlow, Keras, PyTorch, OpenCV, Scikit-learn, LangChain, LangGraph, Hugging Face Transformers
Tools and Platforms: Git, GitHub, Docker, Linux, Bash, Postman

Projects

Khorchapati *(Ongoing)* — GitHub
A *smart financial app* using foundational models to categorize and track expenses, providing detailed insights into spending habits.

- *Natural language interaction* for adding expenses and getting insights using conversational commands.
- *Receipt scanning* to automatically extract and categorize expenses from photos.
- *Spending analytics* with detailed breakdowns and trends, plus intelligent budget alerts.
- *Privacy-focused design* with end-to-end encryption and cross-device sync.

PoribeshAI — GitHub
An *AI-powered smart waste management platform* connecting citizens, municipalities, and recyclers. Built using *React, Spring Boot, FastAPI, and Google Gemini 2.5.*

- Implements *computer vision for waste classification* (94% accuracy) and *predictive bin capacity modeling.*
- Features *dynamic route optimization*, reducing collection costs by 30% and routes by 31%.
- Integrates *Telegram bot automation* via n8n, AI chatbot with LangChain, and e-waste price prediction.
- Achieved 99.7% uptime with microservices architecture (PostgreSQL, Firebase, Redis).

Locato — GitHub
A *React Native Expo* based app for *searching specialist for any type of help using location-based AI recommendations.*

- Provides AI-powered specialist suggestions based on user queries.
- Features real-time chat for user-specialist communication.
- Includes appointment booking and specialist management.

ShouldStream — GitHub
A networking-based *real-time video streaming and chat application* using Python.

- Implements video streaming and chat in a peer-to-peer network.
- Utilizes *OpenCV* for video and *PyAudio* for audio management.
- Developed using *TCP and UDP* protocols with flow and congestion control.

GadgetGrove — GitHub
E-commerce platform with an *AI chatbot for product recommendations and AR product view.* It was built using *NextJS, Springboot and FastAPI.*

- Developed an integrated product recommendation system using AI.
- Implemented AR-based visualization for product previews.

- Integrated Stripe for secure payments and built an admin dashboard.

MediHelp   GitHub

A *medical diagnosis and doctor search platform* using AI-powered suggestions. It was built using *Java and Firebase.*

- Built using *Java, Firebase, Firestore*, and integrates user profile management.

- AI-driven symptom checker for medical condition suggestions.

- Doctor booking system with filtering by specialization and location.

Competitive Experience

Hackathon:

- **2nd Runner-up**, InnovateX 2025 Hackathon, organized by the University of Asia Pacific —
  Team DU_Prometheus

- **5th Place**, 1st S.N. Bose Science Festival 2025 Hackathon —
  Team DU_Prometheus

- **Top 10 Finalist**, BUET CSE Fest 2024 Hackathon —
  Team NO_FEAR

Certifications

Supervised Machine Learning: Regression and Classification —
Coursera (Andrew Ng), 2025 — Certificate

Advanced Learning Algorithms —
Coursera (Andrew Ng), 2025 — Certificate

Education

Bachelor of Science in Computer Science and Engineering
University of Dhaka, Bangladesh — Expected Graduation: January 2026 — CGPA: 3.94/4.00