

Jamal Uddin Mallick

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EDUCATION

University of Dhaka

Bachelor of Science in Computer Science and Engineering

Dhaka Residential Model College

Higher Secondary Certificate

Expected Jan 2026

CGPA: 3.92/4.00

2020

GPA: 5.00/5.00

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, TypeScript, Go

Frontend: React, NextJS, React Native Expo, Electron, HTML, CSS

Backend: Express, Spring Boot, FastAPI, Firebase, RESTful APIs, GraphQL

Database: PostgreSQL, MySQL, MongoDB, Redis

AI/ML: TensorFlow, PyTorch, OpenCV, LangChain, LangGraph, Hugging Face

DevOps/Tools: Docker, Linux (Bash), Git, GitHub, Postman

PROJECTS

PoribeshAI | *React, Spring Boot, FastAPI, Google Gemini, PostgreSQL*

Ongoing | [GitHub](#)

- Architected a smart waste management ecosystem connecting municipalities and recyclers.
- Engineered computer vision models for waste classification with **94% accuracy** and predictive bin capacity modeling.
- Integrated **LangGraph-powered Deep Agent AI chatbots** and Telegram automation via n8n for citizen engagement.

Khorchapati | *React Native Expo, LLMs, LangChain, Typescript*

Ongoing | [GitHub](#)

- Developing a financial tracking application utilizing **Foundational Models (LLMs)** to parse natural language commands.
- Implementing OCR for automated receipt scanning and categorization with end-to-end encryption for data privacy.
- Designing spending analytics dashboards to provide actionable insights and intelligent budget alerts.

Locato | *React Native Expo, Springboot, Stripe, Mistral AI*

[GitHub](#)

- Built a location-based service marketplace connecting users with specialists using geospatial querying.
- Developed **real-time chat functionality** and appointment scheduling systems using WebSockets.
- Integrated AI-driven recommendation engines to match user queries with the most relevant local specialists.

GadgetGrove | *NextJS, Spring Boot, FastAPI, Stripe*

[GitHub](#)

- Developed a full-stack e-commerce platform featuring an **AI Chatbot (RAG)** for personalized product recommendations.
- Implemented **Augmented Reality (AR)** product visualization to enhance user experience and conversion rates.
- Secured payment processing via Stripe integration and built a comprehensive admin dashboard.

ShouldStream | *Python, TCP/UDP, OpenCV, PyAudio, Tkinter*

[GitHub](#)

- Engineered a peer-to-peer (P2P) video streaming and chat application implementing custom **TCP/UDP protocols**.
- Optimized video data transmission using OpenCV and PyAudio with custom flow and congestion control mechanisms.

MediHelp | *Java Android, Firebase Firestore, Room database, Mistral AI*

[GitHub](#)

- Created a medical diagnosis platform featuring an AI-driven symptom checker and logic-based disease suggestion engine.
- Implemented doctor search functionality with filtering by specialization and geolocation.

HONORS & AWARDS

2nd Runner-up, InnovateX 2025 Hackathon (University of Asia Pacific) – *Team DU_Prometheus*

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

7th Place, BUBT InnovateX Hackathon 2025 – *Team DU_Caffeine*

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