

Jamal Uddin Mallick

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EDUCATION

University of Dhaka

Bachelor of Science in Computer Science and Engineering

Expected Jan 2026

CGPA: **3.92/4.00**

Dhaka Residential Model College

Higher Secondary Certificate

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

ZeroBin | *FastAPI, LangChain, Google Gemini, PostgreSQL/PostGIS, Next.js*

[Live](#) | [GitHub](#) | [Demo](#)

- **Champion** at Solvio AI Hackathon 2025; **architected FastAPI backend** for AI waste platform incl. logic, workflows, revenue model.
- Engineered fraud detection: EXIF extraction, reverse search, AI verification, Gemini API validation.
- Developed LangGraph chatbot w/ DB access, search; integrated ML models to APIs w/ PostGIS queries.
- Implemented gamified reporting, assignment, dashboard w/ heatmaps, e-waste market w/ bidding.

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

Ongoing | [GitHub](#)

- Developing financial tracker using LLMs for natural language parsing.
- Implementing OCR receipt scanning, categorization w/ end-to-end encryption.
- Designing analytics dashboards for insights, budget alerts.

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

[GitHub](#)

- Built location-based marketplace connecting users/specialists via geospatial queries.
- Developed real-time chat, scheduling w/ WebSockets.
- Integrated AI recommendations for query-specialist matching.

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

[GitHub](#)

- Developed e-commerce w/ AI Chatbot (RAG) for recommendations.
- Implemented AR visualization for user experience.
- Secured payments via Stripe, built admin dashboard.

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

[GitHub](#)

- Engineered P2P video streaming/chat w/ custom TCP/UDP protocols.
- Optimized transmission w/ OpenCV, PyAudio, congestion control.

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

[GitHub](#)

- Created medical platform w/ AI symptom checker, disease suggestion.
- Implemented doctor search w/ specialization, geolocation filters.

HONORS & AWARDS

Champion, Solvio AI Hackathon 2025 (Sheba & Programming Hero) - Beat 538 teams from 60+ universities

2nd Runner-up, InnovateX 2025 (UAP) - *Team DU_Prometheus*

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

7th Place, BUBT InnovateX 2025 - *Team DU_Caffeine*

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

CERTIFICATIONS

Group Testing: An Important Tool for Data Science – Indian Institute of Technology, Bombay, Jun 2025 — Certificate

Supervised Machine Learning: Regression and Classification – Coursera (Andrew Ng), Jun 2024 — Certificate

Advanced Learning Algorithms – Coursera (Andrew Ng), Aug 2024 — Certificate