BUL DENG MAYEN

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Computer Science graduate from Ain Shams University. I build systems end to end — machine learning pipelines, Python backends, and native Android apps. Most recently I co-built D-Nerve, an ML-powered transit platform for Cairo's informal microbus network, where I led the team, owned the backend and both Android clients, and co-developed the route-discovery and ETA models.

SKILLS

Machine learning: Python · scikit-learn · DBSCAN clustering · Linear regression · Model evaluation

Backend: FastAPI · PostgreSQL · SQLAlchemy · REST API design · JWT authentication · Pytest

Mobile: Android (Java) · Retrofit · Google Maps SDK · Firebase Cloud Messaging

Web: TypeScript · React · Next.js · Tailwind CSS

Also worked with: Dart / Flutter, C++, JavaScript, HTML/CSS — Practices: Git, Agile, Unit & integration testing, Technical documentation, ERD & sequence diagrams

EXPERIENCE

Dream Air Aviation July 2022 – October 2022

Operations Officer Intern Juba, South Sudan

Built internal tooling for flight operations.

- Developed a flight expense management program that reduced manual administrative workload.
- Automated flight planning processes, improving operational efficiency by 20%.
- Built a tracking system for flight data, payments, and expenditures.

EDUCATION

Ain Shams University Cairo, Egypt

Bachelor of Computer Science · Department of Computer Science October 2026

Coursework: Data Structures, Algorithms, Object-Oriented Programming, Machine Learning

AWARDS

3rd place — Machine Learning course project competition · Ain Shams University 2026

Last updated: October 2026