

ABDULMUHMEEN LEASU

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EDUCATION

Durham University

Bachelor of Sciences in Computer Science

Modules: Algorithms & Data structures, Computer Systems, Networks and Systems, Software Engineering

Durham, UK

Oct 2024 – Jun 2027

Concord College

A Levels: Mathematics, Physics, Further Maths, Chemistry

Sep 2022 – Jun 2024

EXPERIENCE

Software Engineering Intern

Mercurie

May 2025 – Sept 2025

Lagos, Nigeria (Remote)

- Built a customer service chatbot using **Go** and **Gemini API** for real-time web integration.
- Prototyped automated business agents utilizing **Google Vertex AI** and prompt engineering.
- Evaluated LLM reasoning performance and latency within **Google Cloud Platform (GCP)**.
- Assisted in technical documentation and requirement scoping for **gRPC microservices**.
- Researched and applied **Go** backend patterns to enhance internal operational tools.

Founder & Lead Engineer

AMALWorks

Aug 2024 – Present

- Founded a software consultancy delivering **full-stack** solutions and cloud strategy for SMEs.
- Deployed cost-effective cloud applications on **Azure** and **GCP**, optimizing CI/CD pipelines for rapid iteration and high availability.
- Launched multiple apps on the Apple and Google app stores, with multiple users.
- Building a personal brand and technical community by documenting engineering challenges and software architecture decisions to a growing audience.

PROJECTS

AMAL Inventory | Flutter, Dart, SQLite, Firebase

July 2024 – Present

- Engineered an Offline-First mobile Inventory and POS app for **MSMEs**, ensuring 100% availability in low-connectivity regions.
- Implemented **FIFO batching** logic to automate COGS, revenue, and profit margin calculations.
- Built a robust **SQLite** local storage architecture with background syncing for offline use
- Integrated payment processors for accepting payments via QR from customers
- Enabled **RBAC** permissions for different user types on the app ie Manager, Staff
- Deployed to the **iOS App Store** and **Google Play**, serving a growing base of micro and small businesses globally

GbeWa Delivery app | Dart, Flutter, Firebase, Django Rest, Celery, PostgreSQL, Google Cloud

Jun 2024 – Present

- Architected a full-stack delivery platform with a Django REST backend and PostgreSQL, containerized via **Docker Compose** and deployed on **Google Cloud**
- Engineered real-time driver-order matching using **WebSockets** and **Asynchronous Task Queues (Redis)** to handle **event-driven** workflows.
- Developed a cross-platform **Flutter** mobile application and a Next.js administrative dashboard for **real-time** order orchestration.
- Integrated third-party **REST APIs** for payments and SMS, utilizing **Webhooks** for automated transaction state updates.
- Setup firebase cloud messaging for server to app communications, w/ push notifications

amaltools.com (EPQ) | Django, Bootstrap, Git, Nginx, PostgreSQL, AWS, Google Analytics

Nov 2022 – Aug 2024

- Developed a full-stack web application with Django, that provided a GUI for popular python libraries such as text extraction from images using Tesseract OCR and youtube to mp4 using yt-dlp
- Leveraged Git and GitHub actions to automatically test and deploy to production VPS
- Deployed a fully operational python based web app onto a Linux server using Nginx
- Launched a live website on the amaltools.com domain achieving over **3000 visits**
- Tracked over **1.1k unique users**, with a peak of **97 in a single day**

TECHNICAL SKILLS

Languages: Python (Advanced), Go (Intermediate), TypeScript (Basic), SQL (PostgreSQL), C, Linux CLI

Frameworks & Libraries: FastAPI, Django, Node.js, Flutter, React

Cloud & Infrastructure: GCP (Vertex AI, Cloud Functions), Docker, gRPC/Protobuf, Event-Driven Systems, Firebase, Git/GitHub, CI/CD