

# Mansoor Hasan Ali Shokal

Alor Setar, Kedah, Malaysia • +60 11-2080 7612

[Mansourshakla@gmail.com](mailto:Mansourshakla@gmail.com)

[github.com/mh2des](https://github.com/mh2des) • [linkedin.com/in/mansoor-shokla](https://linkedin.com/in/mansoor-shokla)

## PROFESSIONAL SUMMARY

---

Computer Science (Data Science) student with hands-on experience building and shipping production-grade mobile and web applications. Strong focus on Flutter, backend APIs, and cloud deployment. Published Google Play apps, built a large-scale Arabic linguistic platform, and integrated applied AI and NLP features into real products.

## EDUCATION

---

**Albukhary International University (AIU)**

*Bachelor of Computer Science (Data Science Specialization)*

**Alor Setar, Malaysia**

*Exp. Graduation: 2026*

- **CGPA:** 3.65 / 4.00
- **Relevant Coursework:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Software Engineering, Database Systems, Data Structures & Algorithms.

## TECHNICAL SKILLS

---

- **Languages:** Python, Dart, JavaScript, SQL.
- **Mobile Development:** Flutter, Firebase, Android Studio, PWA Integration.
- **Backend Engineering:** FastAPI, Django (DRF), Flask, Node.js, REST APIs, WebSockets.
- **Data Science & AI:** NLP (Transformers, Faster-Whisper), TensorFlow, Scikit-learn, Pandas.
- **Cloud & DevOps:** Google Cloud (Cloud Run, SQL), Docker, Cloudflare (Workers, Pages), Git.
- **Databases:** PostgreSQL, SQLite, Firestore.
- **Spoken Languages:** Arabic (Native), English (Fluent).

## FLAGSHIP PROJECTS

---

**Irab: AI-Powered Arabic Grammar App (Mobile)**

[Google Play Link](#)

- Designed and launched a comprehensive Flutter application for Arabic grammar analysis and learning.
- Achieved 700+ organic downloads and a 5-star rating in the first month of release.
- Engineered a system integrating Firebase for backend services and Google Vision API for OCR features to digitize and analyze text from images.
- Implemented complex UI states for interactive grammar lessons and real-time lexicon search.

**Tech Stack:** Flutter, Dart, Firebase, OCR, REST APIs

**Qamoos.org: Arabic Linguistic Platform (Web)**

[Live Site](#)

- Architected a high-performance web platform managing 189,000+ dictionary entries and 36,000+ poetry verses.
- Optimized data delivery by reducing initial JSON payload size by 97% using staged loading techniques.
- Deployed a scalable microservices architecture using Docker on Google Cloud Run and Cloudflare Workers.

**Tech Stack:** Flask, PostgreSQL, Docker, GCP Cloud Run, Cloudflare, JavaScript

## ADVANCED ENGINEERING PROJECTS

---

## **Malay to English Sermon Translation System (FYP)** Final Year Project

- Developed a real-time speech-to-text pipeline to translate Friday sermons for international students.
- Integrated *Faster-Whisper Large-V3* for high-accuracy transcription and translation.
- Built a WebSocket-based delivery system allowing multiple clients to receive synchronized subtitles instantly on their mobile devices during the sermon.

**Tech Stack:** FastAPI, Faster-Whisper (AI), WebSockets, PostgreSQL, Python

## **Class Management System API** GitHub

- Designed a role-based backend system for managing enrollments, assignments, and grading.
- Implemented secure authentication (JWT) and complex relational database modeling for academic workflows.

**Tech Stack:** Django REST Framework, PostgreSQL, Docker

## **Handwritten Digit Recognition (Deep Learning)** GitHub

- Trained a CNN model on a dataset of 0–70 digits using transfer learning techniques.
- Achieved 82.86% accuracy by implementing an ensemble voting mechanism across 35 image patches.

**Tech Stack:** TensorFlow, Keras, Python, OpenCV

## **Shifu: AI Recipe Generator (Hackathon)** GitHub

- Built a "Smart Kitchen" assistant that generates recipes based on available ingredients using LLMs.
- Delivered a fully functional MVP with Flutter frontend and Flask backend within a 10-day sprint.

**Tech Stack:** Flutter, Flask, OpenAI API

## **LEADERSHIP & EXPERIENCE**

---

### **President / Committee Member**

*2023 – Present*

### **Albukhary Quranic & Islamic Club (ALQISC)**

- Led the strategic planning and execution of university-wide Islamic programs and events.
- Coordinated between student committees and university administration to secure approvals and funding.
- Selected to deliver the official supplication at the University Convocation Ceremony.

### **Arabic Language Instructor**

*2023 – 2024*

### **Albukhary International University**

- Conducted structured Arabic classes for international non-native speakers.
- Developed lesson plans focusing on conversation, grammar, and writing skills.
- Mentored students from diverse backgrounds, providing personalized feedback to improve proficiency.

### **Youth Leader / Participant**

*Oct 2024*

### **NAMA Foundation Youth Leadership Camp**

- Selected as one of 50 student leaders from 25+ nationalities for an intensive action-based training program.
- Collaborated with peers from AIU and IIUM to design social impact and environmental responsibility initiatives.
- Developed practical skills in strategic communication and team management through interactive workshops.

## **HONORS & AWARDS**

---

- **Winner (1st Place):** Code Quest Competition, School of Computing (2024).
- **Winner (1st Place):** AIU Quran Competition (2024).
- **Participant:** Salam Hackathon 2025.
- **Participant:** Google APAC Solution Challenge Hackathon 2025.
- **Certification:** Google Cloud Computing Foundations.