

Mansoor Hasan Ali Shokal

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

Mansourshakla@gmail.com

github.com/mh2des • 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

Albukhary Quranic & Islamic Club (ALQISC)

2023 – Present

- 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

Albukhary International University

2023 – 2024

- 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

NAMA Foundation Youth Leadership Camp

Oct 2024

- 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.