Mansoor Hasan Ali Shokal

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Professional Summary

Computer Science student (Data Science specialization) focused on shipping production mobile and web software. Strong in Flutter app development, backend APIs (FastAPI, Django), and database-backed systems (PostgreSQL), with experience deploying to GCP and Cloudflare. Built and published real-user applications and integrated applied NLP features into products.

Technical Skills

Mobile: Flutter, Firebase, Android Studio, Mobile UI, App Release and Play Store Publishing
Backend: FastAPI, Django (DRF), Flask, Node.js, REST APIs, WebSockets, JWT, Gunicorn
Languages: Python, Dart, JavaScript (ES6+), Java, SQL
Data and Infra: PostgreSQL (FTS/JSON), MySQL, SQLite, Firestore, Docker, Git/GitHub, Postman
Cloud and Web: GCP (Cloud Run, Cloud SQL), Cloudflare Workers, Cloudflare Pages/CDN, HTML5, CSS3, PWA
AI (Applied): NLP, Hugging Face Transformers, Faster-Whisper, TensorFlow, Scikit-learn
Languages Spoken: Arabic (Native), English (Fluent)

Education

Bachelor of Computer Science (Data Science Specialization), Albukhary International University (AIU), Malaysia   Expected 2026
CGPA: 3.65
Relevant Coursework: Software Engineering, Database Systems, OOP, Artificial Intelligence, Machine Learning, Deep Learning, NLP

Selected Projects

Irab, AI-Powered Arabic Grammar App (Mobile)   Google Play
- Built a production Flutter app for Arabic grammar analysis, lexicon exploration, and guided learning modules.
- Published on Google Play; reached 700+ downloads and maintained a 5-star rating during the first month.
- Implemented Firebase-backed features and integrated OCR and AI APIs for interactive explanations.
- Stack: Flutter, Firebase, OCR, AI API integration (Gemini/Groq).

Qamoos.org, Arabic Linguistic Engine (Web)   Live
- Built and deployed a linguistic platform managing 189,042 dictionary entries, 48 grammar books, and 36,000+ poetry verses.
- Implemented a 3-tier JSON loading strategy that reduced initial payload by 97% and improved perceived performance.
- Stack: Vanilla JS, Flask, Docker, Google Cloud Run, PostgreSQL, Cloudflare Workers.

AI-Driven Malay to English Sermon Translation System (Final Year Project)
- Built real-time subtitle synchronization for live sermons with a human verification workflow.
- Optimized inference speed and implemented multi-client real-time delivery.
- Stack: FastAPI, Faster-Whisper Large-V3, WebSockets, PostgreSQL.

Class Management System (Backend API)   GitHub
- Designed a role-based education platform API (students, professors, assignments) with secure authentication and relational modeling.
- Built automated grading and enrollment tracking with a robust PostgreSQL schema.
- Stack: Django 5, Django REST Framework, JWT, PostgreSQL.

Handwritten Digit Recognition (Deep Learning)   GitHub
- Trained a digit recognition system (01–70 classes) using transfer learning and dataset-specific preprocessing.
- Achieved 82.86% accuracy using 35-patch ensemble voting with targeted fine-tuning.
- Stack: TensorFlow, MobileNetV2, OpenCV (CLAHE), ensemble inference.

Shifu, AI Recipe Generator (Hackathon Project)   GitHub
- Built a generative recipe assistant from ingredients using Flutter and Flask with OpenRouter AI API (delivered in 10 days).

Leadership and Activities

- **President / Committee Member, Albukhary Quranic and Islamic Club (ALQISC):** Led planning and execution of university-wide programs and coordinated approvals with university administration. Selected

to recite Du'a at the university convocation ceremony.
- **Arabic Language Instructor, Albukhary International University (AIU):** Taught Arabic to international non-native speakers; prepared lesson plans and guided students through structured practice. Mentored learners across diverse backgrounds.

Awards and Certifications

- 1st Place Winner, Code Quest Competition (School of Computing and Informatics), competitive team coding challenge.
- 1st Place Winner, Albukhary International University Quran Competition (2024).
- Google Cloud Computing Foundations Certificate.
- Youth Leadership Camp, Participant (Nama Foundation and Education Malaysia).
- Participant, Salam Hackathon 2025; Participant, APAC Solution Challenge Hackathon 2025.

References

Associate Professor Dr. Basheer Riskhan   Dean, School of Computing and Informatics (SCI)
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