

Mohammed Alsayed

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SUMMARY

Final-year Business Management student who taught himself backend development, building Python APIs on PostgreSQL with authentication, database migrations, automated tests and CI. Looking for graduate and junior backend or software engineering roles from 2027. Fluent in English, native Arabic.

SKILLS

Python, SQL, PostgreSQL, T-SQL, FastAPI, Flask, Pydantic, SQLAlchemy, Alembic, REST API Design, JWT Authentication, Role-Based Access Control, pytest, Unit & Integration Testing, Docker, Docker Compose, GitHub Actions CI/CD, Heroku, Git, pandas, NumPy, Jupyter

WORK EXPERIENCE

Manchester Metropolitan University

Oct 2026 - Present

Student Record Quality Specialist (Part-time)

Manchester, UK

- Write Python and pandas scripts that flag duplicates, missing values and formatting errors in student record exports, reducing manual checking time.
- Built reusable validation checks for date formats, required fields and matching IDs, run on every new data batch before review.
- Handle sensitive personal data in line with GDPR and university data protection rules.

Whitelight Trading

Jun 2026 - Jul 2026

Software Engineer Intern

Bahrain

- Gathered requirements from the CEO and operations manager of a B2B wholesale distributor to replace a manual sales, stock and quotation process.
- Mapped how the sales team used Tally Prime stock and invoice data, and turned it into the user roles, data model and API plan for a sales tool.

PROJECTS

Gym Social Media API

[Source](#)

Python, FastAPI, PostgreSQL, Docker

- Built a gym social API where users log workouts set by set, with a feed, follows, likes and communities, and ownership checks so users can only edit or delete their own content.
- Wrote a personal-record service that looks up each lifter's previous best with a SQL aggregate query and flags every new high within a session, plus leaderboards that score lifts relative to bodyweight and height.
- Implemented JWT access and refresh tokens and Alembic migrations, with 40+ pytest tests in GitHub Actions, which also builds the Docker image.

Nutrition Tracker API

[Source](#) | [Live demo](#)

Python, Flask, PostgreSQL, SQLAlchemy

- Built REST APIs for food and activity logs, personalised calorie, macro and micronutrient targets, and daily and weekly reports.
- Integrated the USDA FoodData Central API with ranked food search, and wrote services for nutrient-density scoring and per-meal iron absorption checks.
- Kept routes, services and models in separate layers; 40+ pytest tests run in GitHub Actions against PostgreSQL; deployed on Heroku.

Whitelight Sales API

[Source](#)

Python, FastAPI, PostgreSQL, Alembic

In progress

- Building the sales backend I scoped during my internship, with Tally Prime kept as the source of truth for stock and invoices.
- Built role-based accounts (admin, manager, salesman) where public sign-up can only create salesmen, plus a safe first-admin setup; 26 pytest tests run in GitHub Actions.

EDUCATION

Manchester Metropolitan University

2025 - 2027

BA (Hons) Business Management, Expected 2:1

Manchester, UK

- Administrator, AI Society

Keele University

2024 - 2025

Business Management

Keele, UK

CERTIFICATIONS

Complete Python Developer (Zero to Mastery) | Complete SQL + Databases Bootcamp (Zero to Mastery)