

# M Ali

Graduate Software & Data Engineer

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## Education

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**Manchester Metropolitan University**

*BSc in Software Engineering*

Manchester, United Kingdom

*Sep 2023 – May 2026*

## Skills

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**Languages:** Python, Java, JavaScript, SQL

**Backend & APIs:** FastAPI, REST APIs, JSON, API Integration, Authentication, SQLAlchemy

**Data Engineering:** PostgreSQL, Pandas, Prefect, ELT Pipelines, Medallion Architecture

**Testing & CI:** pytest, GitHub Actions, Ruff

**Tools:** Git, GitHub, Docker, Docker Compose, Postman, pgAdmin

## Projects

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**Retail & Operations Intelligence Platform** | *Python, PostgreSQL, Prefect, FastAPI, Docker, pytest*

- Designed and built a production style ELT data platform using a medallion architecture (bronze/silver/gold), ingesting 50,000+ mock retail transactions through validated transformation layers into analytics-ready PostgreSQL tables
- Implemented idempotent SQL transformations with upsert patterns, a quarantine system for invalid records, and exponential backoff retry logic in the ingestion layer
- Orchestrated the full pipeline with Prefect, including run metadata logging, staged data quality validation, and automatic pipeline failure handling on validation breaches
- Exposed analytics through a FastAPI REST API with 6 endpoints serving gold-layer reporting data, and wrote 20 pytest tests covering transformation logic, validation rules, and API contracts
- Containerised the full stack using Docker Compose and configured GitHub Actions CI for automated linting and testing on every push

**Support Ticket API** | *Python, FastAPI, SQLAlchemy, Alembic, JWT, Docker, pytest*

- Built a backend API for support ticket management with user registration/login, JWT-based authentication, ticket CRUD endpoints, and ownership-based access control
- Added relational database persistence, Alembic migrations, automated API tests, and a Dockerised local setup to support a production-style development workflow

**LLM Benchmarking Framework for Financial Sentiment Analysis** | *Python, APIs, Data Analysis*

- Built an automated pipeline to benchmark large language models on financial sentiment classification tasks
- Designed data processing and inference workflows to standardise model outputs across multiple APIs
- Implemented evaluation metrics including accuracy, macro F1-score, and latency tracking for comparative analysis
- Generated structured reports and visualisations to analyse model performance on domain-specific datasets
- Optimised API usage and testing workflows to reduce failed calls and improve cost efficiency

## Experience

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**Application Support Engineer**

*Clarix, Apple subsidiary*

Apr 2025 – Dec 2025

*Remote*

- Troubleshoot application workflows in FileMaker across scripts, layouts, data handling, and API-connected processes in cloud, server, and client environments
- Performed root-cause analysis on bugs involving business logic, data handling, and API integrations
- Debugged automation workflows using JSON and REST-based services, investigating system behaviour across distributed components
- Collaborated with engineering teams by providing detailed issue reports and reproduction steps

## Languages

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English (Fluent)

Italian (Fluent)