

# Omar Ashraf Mohammed

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## EDUCATION

**BSc Computer Science**, University of London (European Universities in Egypt) Expected Mar 2027  
**First Class Honours • Top 5% of cohort**  
*Relevant coursework:* Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Computer Systems & Architecture, Networks  
**Modern English School**, Cairo 2018 – 2022

## PROFESSIONAL EXPERIENCE

**Undergraduate Research Assistant, European Universities in Egypt, New Capital, Egypt** Jan 2026 – Aug 2026

- Designed and collected a **multimodal video + IMU** corpus for real-time exercise form assessment, and structuring annotation pipelines for **pose classification** across multi-modal session splits
- Benchmarked **pose estimation**, keypoint classification, and **transformer** sequence models across **10+** architectures on held-out splits; achieved **96.6% baseline accuracy** with ML-LDA, establishing reproducible evaluation protocol

**Backend Engineer Intern, Orange Egypt, Smart Village, Egypt** Jun 2026 – Jul 2026

- Architected a **Spring + PostgreSQL** promotional gift-fulfillment engine exposing 4 **REST APIs** (eligibility preview, transactional fulfillment, create segment + add user to segment); enforced exactly-once delivery under concurrent load via **advisory locking, idempotency keys, and in-lock re-checks**, eliminating double-redemption races
- Designed a **data-driven cap-rule system** (configurable X:Y redemption limits) over an immutable redemption ledger, enabling new gift segments and frequency caps to ship as **config changes with zero redeploy**s; served eligibility decisions in **<50ms** across a **10K+ user** campaign segment

**QA Engineer Intern, Qestit Group, Cairo, Egypt** Apr 2026 – May 2026

- Executed full-cycle functional and non-functional testing with **Playwright**, Postman, and JMeter on an enterprise Test Management System serving **100K+** end users; surfaced **20+** critical defects across UI, API, and database layers pre-release
- Identified and reported performance bottlenecks that drove a **61% improvement in page load times**, directly unblocking enterprise client release readiness

**Summer Intern, Dell Technologies, New Cairo, Egypt** Aug 2025 – Sep 2025

- Selected from **12,000+ applicants**; led the **AI/ML build of SpotAI**, an end-to-end misinformation detection platform shipped in a 5-person sprint and presented to Dell executive leadership
- Owned the verification pipeline integrating **ASR, OCR, RoBERTa-MNLI, and a RAG-augmented LLM**, achieving **90%+ claim verification accuracy** and **30% faster inference** via batching and caching

**IT Summer Intern, Emirates NBD, New Cairo, Egypt** May 2025 – Jun 2025

- Automated health-check scripts in **Python** and **Bash**, **cutting manual audit cycles by 20%** across enterprise banking infrastructure
- Supported CISO and Security Architect on a **Nessus** vulnerability sweep across on-prem core-banking infrastructure; documented **50+ critical findings** and authored mitigation playbooks that contributed to **ISO 27001** and Central Bank of Egypt regulatory compliance

**AI Engineer Intern, Deepkapha AI Lab, Remote (Netherlands)** Sep 2024 – Feb 2025

- Developed and deployed a full-stack seismic facies classification tool, integrating **U-Net architectures** (ResNet-34, ResNet-50, InceptionV3 backbones) behind a **Flask + FastAPI** service with **Dockerized CI/CD**
- Owned data preprocessing and augmentation pipelines; tuned hyperparameters and optimization strategy to reach **95.7% average classification accuracy** across geological test volumes, exceeding prior benchmark by **22%**

## PROJECTS

**Sysmon AI** | [GitHub](#) | Python, Scikit-learn, Pandas, NumPy, SQLite

- Built an ML-powered system monitoring tool processing **86K+ daily metrics** with **96% anomaly detection accuracy**
- Engineered time-series features and an automated calibration loop maintaining **<5% false-positive rate** at **<3% CPU overhead**

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, C++, SQL, Java, HTML, CSS, Bash

**Frameworks & Libraries:** PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, OpenCV, FastAPI, Flask, Node.js, Express, Pandas, NumPy, Spring

**Developer Tools:** Docker, Git, GitHub Actions, AWS, Linux (Red Hat), Playwright, Postman, JMeter

**Databases:** PostgreSQL, SQLite, MySQL

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- Forward Program Participant, McKinsey.org** (Remote, Egypt) Oct 2026 - Present
- Dual Study Programme Trainee, SAP** (Remote, Egypt) Nov 2025 – Jan 2026
- Mentee, Deloitte Innovation Hub** (Remote, Egypt) Jun 2025 – Aug 2025
- Logistics & Organisation Lead, GDG On Campus EUE** (New Capital, Egypt) Aug 2024 – Jul 2025