

Ziad Khalifa

ziadalikhalifa@gmail.com | +971 509 726 731 | Dubai, UAE

Experience

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- Lead Software Engineer** – Holo, Dubai Mar 2024 – Present
- Lead a team of 5 engineers delivering scalable backend services that power Holo’s core platform, shipping 3 major releases on schedule.
 - Architected a multi-model AI agent with RAG that ingests real-time market data, automating property valuations and cutting manual research time by ~60%.
 - Own end-to-end feature delivery from RFC through production, reducing average cycle time from 5-6 weeks to under 2.
 - Established engineering standards including code-review workflows and CI gates, improving deployment reliability across the team.
- Senior Software Engineer** – Holo, Dubai Feb 2023 – Mar 2024
- Redesigned property-listing microservices, improving API p95 latency by 400% and supporting 2x listing throughput at peak load.
 - Built internal mortgage-manager tooling that consolidated 4 disconnected workflows, reducing lead processing time by 50%.
 - Executed a zero-downtime PostgreSQL schema migration on a 500K+ row production database with no user-facing impact.
- Software Engineer III** – Zyda, Cairo Apr 2022 – Feb 2023
- Launched a full-stack product for a new customer vertical from zero, shipping React frontend and Node.js backend in 8 weeks.
 - Revamped the analytics and campaign engine, driving measurable uplift in merchant engagement and campaign ROI.
- Co-Founder & Full-Stack Engineer** – Side Venture (Exited) Mar 2020 – Apr 2022
- Co-founded and built a web product end-to-end alongside a full-time role — owning frontend, backend, and DevOps infrastructure.
 - Grew the product from zero to sustainable revenue over two years; the business continues to operate post-exit.
- Software Engineer II** – Cysiv, Cairo Jun 2020 – Apr 2022
- Engineered high-throughput data pipelines processing 1T+ security logs/year for a SIEM platform, achieving 99.9% ingestion reliability.
 - Migrated legacy on-prem infrastructure to AWS, cutting hosting costs by 35% and improving uptime from 99.5% to 99.95%.
 - Designed a custom DSL and compilation engine for threat-detection rules, adopted org-wide by 20+ security analysts.
- Software Engineer I** – ITWorx, Cairo Oct 2018 – Jun 2020
- Shipped a unified web portal integrating 300+ internal tools behind SSO, becoming the single entry point for 5,000+ employees.
 - Optimized a government application’s processing pipeline, cutting execution time by 10x (minutes to seconds).
- Software Engineer Intern** – Microsoft, Cairo Jun 2016 – Sep 2016
- Built features for the “Masr Ta3mal” social-impact initiative, helping connect 2,000+ families to income opportunities.

Education

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- B.Eng., Computer Engineering** – Arab Academy for Science, Technology & Maritime Transport, Cairo Sep 2013 – Jul 2018
- Diploma, Mechatronics, Robotics & Automation Engineering** – University of Central Lancashire, Preston, UK Jun 2017 – Sep 2017

Skills

Languages & Frameworks: Node.js, Python, TypeScript, ReactJS, GraphQL

Infrastructure & Data: AWS, GCP, PostgreSQL, MySQL, Docker, Apache Spark, CI/CD

AI & ML Engineering: Agentic Workflows, Retrieval-Augmented Generation (RAG), Multi-Model Orchestration

Leadership: Team Management, Agile Methodologies, Cross-functional Collaboration, Problem-solving