Omar Tarek

Cairo, Egypt (UTC+2) | omartarek206@gmail.com | +20 110 090 8802
linkedin.com/in/omartarek206 | github.com/omartarek206

Professional Summary

Software engineer with 3+ years of professional experience delivering production internal tools, relational data architectures, and automated AI workflows. Track record leading technical delivery across ∼5 client accounts and mentoring distributed developer teams.

Experience

Stackdrop *Remote (Athens, Greece)*
Software Engineer (Client-Facing) **June 2023 – Present**
- Drove technical delivery and system architecture across ∼5 client accounts spanning EdTech, E-Commerce, and Construction Tech.
- Architected an embedded B2B administration portal enabling 500+ client organizations to manage seat allocations and student rosters with scoped token authentication and role-based access controls.
- Mitigated platform abuse across ∼2,000 accounts by engineering an automated Trust & Safety risk-scoring pipeline evaluating 7 fraud vectors via scheduled cron workflows and API rate limiting.
- Directed task breakdowns, conducted code reviews, and mentored ∼6 engineers across concurrent client project work streams.
- Delivered operational logistics tooling, secure AWS S3 presigned document pipelines, and an immutable pricing ledger for e-commerce and construction partners.

Osool-IT *Cairo, Egypt*
Software Engineer (Part-Time) **Jan 2025 – June 2025**
- Architected a USALI-compliant hotel financial planning and operational statistics suite using PostgreSQL and Retool, integrating room and F&B allocations with monthly P&L ledgers.
- Engineered real-time PostgreSQL database triggers and reporting views to automate data synchronization between daily operational statistics and monthly financial statements.

Robusta Studio *Cairo, Egypt*
Software Testing Intern **Sept 2021 – Mar 2022**
- Built automated and manual test suites using Selenium and Postman across agile sprints, validating client web deployments against functional specifications.

Nabta Health *Remote (Sharjah, UAE)*
Software Engineering Intern **Dec 2020 – Apr 2021**
- Developed and shipped mobile healthcare application views and reusable interface components using React Native and JavaScript.

Selected Projects

- **The Freelance Dojo** (Live App, Award Post): Global Winner (Pitch Perfect Award), Retool x Contra Challenge (Jan 2026). Engineered an 8-bit AI negotiation battle arena with multi-agent personas and turn-state engines in Retool DB.
- **Towhee Vector Pipeline Contributions**: Open-source neural data processing and vector embedding framework in Python. Contributed pull requests and documentation fixes for pipeline components.

Technical Skills

- **Languages:** TypeScript, JavaScript (Node.js, React), Python, SQL (PostgreSQL), C++
- **Backend & Databases:** PostgreSQL, Node.js, REST APIs, Relational Schema Design, Database Triggers
- **Cloud & Infrastructure:** AWS (S3 presigned URLs), Docker, Git, Postman, Linux
- **Systems & AI:** LLM Agent Workflows, Prompt Engineering, Claude API, System Architecture

Honors & Certifications

- **Claude Certified Developer – Foundations**, Anthropic (Sept 2026)
- **Deep Learning Nanodegree**, Udacity (Jan 2022)

Education

Ain Shams University *Cairo, Egypt*
B.Sc. in Computer Engineering **2017 – 2022**
- Graduated with honors (Very Good classification, 79.48%).
- **Graduation Project:** FTIR Calibration Transfer using ML – Developed spectral calibration models in Python and Scikit-learn (Grade: Excellent).