

Mohamed Khalifa

Software Engineer

📍 Alexandria, Egypt | 📞 20 102 997 3998 | ✉ makhalifa02@gmail.com | [in 5alifa](#) | [🌐 5alifaa](#)

SUMMARY

Backend Software Engineer with experience building integrations, modernizing legacy systems, and shipping production features across commerce, ERP, healthcare, and AI-enabled products. Strongest in TypeScript/Node.js, Laravel, Go, PostgreSQL, and Odoo integrations, with hands-on experience in performance optimization, asynchronous systems, and business-critical workflows.

EXPERIENCE

Software Engineer

June 2025 — Present

Cartona [🔗](#)

Cairo, Egypt

- Contributed to migrating the retailer backend from Rails to Laravel and Go, reducing API latency from 500ms–3s to around 90ms using OpenSearch and PostgreSQL.
- Built an Odoo integration to sync orders, inventory, and deliveries in real time with merchants' ERP systems.
- Separated the enterprise order flow from the marketplace flow, moving the lifecycle into Odoo to align business workflows across purchasing, sales, and fulfillment operations.
- Investigated and fixed a payment bug caused by a race condition in asynchronous jobs.
- Contributed to designing the integration and transaction flow architecture for an upcoming credit platform, covering partner integrations, authentication, session handling, and transaction lifecycle.

Software Engineer

Jan 2025 — Jun 2025

Tech Hive | *AppAsap* [🔗](#)

Alexandria, Egypt

- Built a GPT-based code generation tool that produced project structure, routes, and boilerplate from natural language prompts.
- Reduced cost and improved generation speed by adding caching and batching API calls.
- Implemented an RBAC system with Zod schemas to improve permission validation.

PROJECTS

Laboratory Information System (Freelance) | *Odoo, ERP, Healthcare*

- Built an Odoo-based laboratory information system covering test ordering, sample tracking, results and reporting.
- Deployed the system in 2 production laboratories: Mozmen Labs [🔗](#) and El Fanar Labs [🔗](#).

Mentor.AI (Freelance) | *Next.js, LiveKit, WebRTC, OpenAI, Deepgram*

- Built a B2B AI platform for sales training and candidate evaluation via simulated voice calls.
- Used LiveKit/WebRTC for calls and OpenAI/Deepgram for transcription and call evaluation.

iSkala (Freelance) | *Next.js, PostgreSQL, Stripe*

live [🔗](#)

- Built the backend for a B2B lead enrichment platform with email, LinkedIn, and phone lookup.
- Added AI email generation and a Stripe-based credit system.

DealBlaster.ai (Freelance) | *Next.js, Gmail API, Stripe*

live [🔗](#)

- Built an email outreach platform that generates personalized cold emails using GPT.
- Integrated Stripe and Gmail API, supporting workflows sending 100+ emails per day.

EDUCATION

Alexandria University

B.Sc. in Computer Science

Sept. 2019 — Jul. 2023

Alexandria, Egypt

ACHIEVEMENTS

ECPC Contestant [🔗](#) | Egyptian Collegiate Programming Contest (ICPC)

2022

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, Node.js, Nest.js, Go, Laravel, Odoo (Python), Next.js

Databases: PostgreSQL, MongoDB, OpenSearch, Redis

Infrastructure & Tools: Docker, AWS, GitHub Actions, Sentry, New Relic