

Mohamed Ahmed Khalifa

Backend Software Engineer

Location : Alexandria, Egypt

Phone : [+20 102 997 3998](tel:+201029973998)

Email : makhalifa02@gmail.com

LinkedIn : [/in/5alifa/](https://www.linkedin.com/in/5alifa/)

Summary

Backend Software Engineer specializing in scalable, high-performance server-side systems. Proven track record modernizing legacy architectures, building ERP/CRM integrations, and optimizing API performance in production commerce and healthcare platforms. Deep expertise in TypeScript/Node.js, Laravel, and PostgreSQL, with strong experience designing asynchronous systems, integration architectures, and business-critical backend workflows.

Technical Skills

- **Programming Languages:** PHP, TypeScript, Node.js, Python
 - **Frameworks:** Nest.js, Laravel, Next.js, Odoo, LiveKit
 - **Databases:** PostgreSQL, MongoDB, Redis
 - **Infrastructure & Tools:** Docker, AWS, GitHub Actions, Sentry, New Relic, Distributed Systems & Microservices, RabbitMQ
-

Experience

Software Engineer

Cartona Cairo, Egypt | *January 2025 – June 2026*

- Played a key role in migrating the retailer backend from Rails to Laravel and Go, helping cut API latency from 500ms & 3s to ~90ms via OpenSearch and Go.
- Built an Odoo integration to sync orders, inventory, and deliveries in real time with merchants' ERP systems.
- Redesigned the order lifecycle by separating enterprise and marketplace flows, aligning purchasing, sales, and fulfillment as the business scaled.

- Diagnosed and resolved a race condition in the async payment pipeline, eliminating a source of duplicate charges and failed transactions in production.
- Designed the integration and transaction flow architecture for a new credit platform, covering partner integrations, authentication, session handling, and transaction lifecycle.

Backend Software Engineer (Freelance)

Independent Contractor, Remote | *July 2023 – December 2024*

- Built an Odoo-based **Laboratory Information System (LIS)** covering test ordering, sample tracking, and results reporting; deployed in two production laboratories (Mozmen Labs, El Fanar Labs).
 - Developed **Mentor.AI**, a B2B backend platform for sales training and candidate evaluation via simulated voice calls, integrating LiveKit/WebRTC for real-time calls and OpenAI/Deepgram for transcription and evaluation.
 - Built the backend for **DealBlaster.ai**, an email outreach platform generating personalized cold emails via GPT, integrating Stripe and the Gmail API to support 100+ daily send workflows.
 - Architected a CRM backend (**Wasel CRM**) using Laravel, Filament, and queue-based systems for lead management and bulk email campaigns with per-recipient delivery/error tracking.
 - Developed internal GPT-based code generation tools at **AppAsap** to automate project scaffolding, routes, and boilerplate generation.
-

Education

B.Sc. in Computer Science, Alexandria University, Egypt | *September 2019 – July 2023*

Achievements

- ECPC Contestant, Egyptian Collegiate Programming Contest, 2022
- **Linux Administration, ITI Summer Training (2022)**: Linux Admin I & II, Bash and Python Scripting, and DevOps.
- **Advanced Full-Stack Web Development, Udacity Scholarship – EgyFWD (2023)**: TypeScript, Node.js, Express, PostgreSQL, and AWS deployment.