

# Khaled Osama

## Senior Full Stack/A.I Software Engineer

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### EXPERIENCE

#### Freelance Full Stack Software Engineer

Jan 2021 – Present

*Upwork — Top Talent Badge Holder*

- **Top Talent Badge Holder:** Maintained a **100% Job Success Score** across 30+ contracts with **97% recommendations** and **60% client retention**.
- Architected backend solutions including a **BTC cryptocurrency** bank integration using the **Saga pattern** and a serverless clock-in system built on **AWS Lambda**.
- Provided technical consulting ranging from **Node.js** mentoring and **Docker** deployment support to building data aggregation pipelines with **Puppeteer**.

#### Senior Full Stack Engineer

Oct 2024 – Present | Dec 2020 – Jul 2022

*Sakneen — Real Estate SaaS Platform*

- Spearheaded AI initiatives as the lead engineer, architecting a **RAG**-based recommendation system, voice-to-text pipelines, and an LLM-driven engine for personalized user offers.
- Designed scalable **NestJS** and **MongoDB** architectures, optimizing job queues to process **185k Salesforce records** and integrating **Twilio** for bidirectional WhatsApp communication.
- Owned full-cycle development from requirements gathering to deployment and established engineering standards by redesigning the technical interview process to include advanced concurrency scenarios.

#### Full Stack Software Engineer

Aug 2022 – Aug 2024

*Pleo — B2B Fintech Expense Management*

- Delivered immediate growth impact, increasing the customer base by **1,500 users in 3 months** and boosting vendor card adoption by **4.5% in 2 weeks** through targeted feature implementations.
- Owned the "features gateway" microservice handling **20M+ daily requests**, designing REST APIs using **Kotlin Dropwizard** and **Node.js Express**.
- Drove engineering excellence by delivering technical presentations on **Git bisect**, **POC** best practices, and **Feature Flag** strategies for controlled rollouts.

#### Back End Software Engineer

Jan 2020 – Dec 2020

*Coligo — EdTech / LMS Platform*

- Designed and maintained REST APIs using **Express**.
- Conducted technical knowledge-sharing sessions for the team on topics including **TypeScript** and **SSH**.

### OPEN SOURCE & CONTRIBUTIONS

- **Open Source & Tools:** Contributed fixes to **Mongoose** and **Fig.io**, and published the Algolia Filter Query Builder NPM package.
- **Community & Standards:** Created reference architectures for NestJS (Hexagonal) and Kubernetes, and authored technical articles on various topics.

### TECHNICAL SKILLS

- **Languages & Frameworks:** TypeScript, Node.js, Kotlin, NestJS, Express, React, Next.js, Dropwizard, SQL.
- **Cloud & Data:** AWS (Lambda, RDS, SQS), Kubernetes, Docker, Terraform, Kafka, PostgreSQL, MongoDB, Redis, Algolia.
- **Quality & AI:** LLM Engineering (Claude, RAG flows), Jest, JUnit, DataDog, Sentry, GitHub Actions.

## EDUCATION

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**Bachelor of Science in Computer Engineering**

**Sep 2013 – Jul 2018**

*Cairo University*

**Open Source Web Development Track**

**Sep 2019 – Dec 2019**

*Information Technology Institute (ITI)*