Abdel-Magid Mroueh

Engineering Manager

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Engineering Manager with 13+ years of experience across full-stack development, system architecture, and team leadership. Deep expertise in TypeScript, NestJS, React, and PostgreSQL. Experienced in building financial systems, payment integrations, and scalable platforms from the ground up. Strong focus on hiring, mentoring, and growing engineering teams while staying hands-on with code, architecture, and AI-driven developer workflows.

PROFESSIONAL EXPERIENCE

Buena
Berlin, Germany · PropTech

Feb 2021 – Present

● **Engineering Manager**　　　　　　　　　　　　　　　　　　　　　Aug 2025 – Present

- Team & process: Leading a team of 5+ engineers. Built a strong engineering culture around code ownership, knowledge sharing, and continuous improvement. Introduced quarterly performance reviews, created clarity for underperforming engineers through goals and milestones, and shaped the roadmap to distribute ownership - every engineer can now contribute to any part of the system with minimal onboarding.
- Accounting system: Evolved the in-house accounting system from a custom solution into a standardized double-entry ledger - processing 12,000+ bank transactions per month, automatically matching and booking them into the correct accounting entries.
- AI DevX: Led AI developer experience across the team - set standards for Claude Code, Cursor, and Codex usage, reducing 2-week projects to 3-4 days while maintaining quality through rigorous code review, unit/integration tests, and Playwright UI tests.

● **Software Engineering Team Lead**　　　　　　　　　　　　　　　　Sep 2024 – Aug 2025

- AI agents: Implemented an agent that automates accounting transaction booking with 90% accuracy (saving 20+ hours/week of manual work) and another that categorizes incoming tickets with 95% accuracy (repair, refund, payment, general).
- Search infrastructure: Started as a proof of concept at an offsite using Go and OpenSearch, then after validating with users, rebuilt it into a production-grade search service indexing 7 entity types across 41+ filterable attributes with fuzzy matching and per-company index isolation. Improved query speed by 90% and reduced load on the main database by 70%.
- Infrastructure & DevOps: Owned the full deployment pipeline and cloud infrastructure across AWS and Vercel - managed environments, CI/CD workflows, monitoring, and maintaining 99.9% uptime.

● **Senior Software Engineer**　　　　　　　　　　　　　　　　　　　Feb 2021 – Sep 2024

- Platform rebuild: Joined when the product ran on Airtable as a no-code solution. Played an integral role in rebuilding the entire application on modern technologies - architected the database design (130+ tables), built the backend with NestJS, and contributed significantly to the Next.js frontend serving 300+ employees.
- Financial systems: Built the Stripe integration and automated rent-collection workflow from scratch, handling 12,000+ bank transactions per month. Designed and led the in-house accounting system tailored for German property management.
- Ticketing system: Built the first version of an in-house ticketing system at an offsite in Portugal - receives notifications via GCP Pub/Sub and processes emails through Gmail API with dedicated processors, auto-linking them to properties and contacts based on sender and context, replacing Outlook and handling 15,000+ emails/month.

Toothpick & Markit

Sep 2020 – Jan 2021

Beirut, Lebanon · E-commerce · Contract

Senior Software Engineer

Sep 2020 – Jan 2021

- Led third-party integration of online payment (Payfort/APS) and logistics (Aramex) providers into the existing e-commerce platform.
- Established Git flow standards, introduced code-quality practices for the web team, and upgraded all frameworks to latest stable PHP and Node versions.
- Mentored junior developers and improved team delivery processes.

Postlight

Aug 2019 – Sep 2020

New York, USA (Remote) · Digital Product Studio

Senior Software Engineer

Aug 2019 – Sep 2020

- Led the development and delivery of the new Postlight.com - applied new designs and deployed via CircleCI to WordPress VIP servers.
- Staffed as a team-augmentation senior engineer at SageSure, building their Agent Portal with React.js and react-testing-library/Jest.
- Maintained multiple in-house open-source projects (headless WP+React starter kit, TinySheet, TinyMonth) and delivered news sites on WordPress multi-site architecture.
- Mentored junior developers, led technical conversations with clients, and identified and resolved technical debt across projects.

IdeaToLife

May 2017 – Jul 2019

Beirut, Lebanon

Technical Lead

May 2017 – Jul 2019

- Led the full project lifecycle from architecture to delivery for products including essmak.com, ZainCash FinTech (Iraq), Quest Education, and SkinSociety.me.
- Architected a microservices-based ERP and e-commerce platform for G-Group using Laravel/Lumen and Angular 6, enforcing TDD and functional programming practices.
- Interviewed, hired, and mentored 10+ senior and junior developers across Lebanon and abroad.
- Refactored and rewrote the backend of the Onlivery food delivery application.

EARLIER CAREER

Blu Solutions Beirut · Senior Software Engineer

2015–2017

Designed and maintained applications with Laravel and CodeIgniter; identified performance issues and prepared technical design specs.

Layout Intl. Beirut · Software Engineer

2014–2015

Built a newspaper workflow and archiving system; led the full lifecycle of the CIR product; contributed to an online CMS with Zend Framework.

Link Systems Kuwait · Software Engineer

2013

Delivered Venus HRS - an HR and time-attendance system integrated with physical fingerprint machines (PHP, MsSQL).

ClearTag & Layout LTD Beirut · Web Developer

2012–2013

Maintained and developed client websites for IPT, MTN, Audi, and Rymco using YII and PHP.

ENGINEERING

TypeScript   JavaScript   Go   PHP   SQL   React   Next.js   TanStack   Angular   NestJS   Node.js   Laravel   GraphQL

REST APIs

INFRASTRUCTURE & DATA

AWS   Vercel   Docker   CI/CD   Git   PostgreSQL   MySQL   MongoDB   OpenSearch   GCP Pub/Sub   Sentry   Stripe   Playwright

LEADERSHIP & PRACTICES

Hiring   Mentoring   Roadmapping   TDD   DDD   Agile   Open Banking   FinAPI   BanksAPI

EDUCATION

B.Sc. Computer Science
Lebanese International University
2009 – 2012

LANGUAGES

English	Fluent
French	Fluent
Arabic	Native
German	Basic

CERTIFICATIONS

Google People Management Essentials
Google · 2025

Grow as a Manager
Google · 2025

Intro to CyberSecurity
CISCO · 2020

JS Algorithms & Data Structures
FreeCodeCamp · 2019

Managing Big Data with MySQL
Coursera · 2016