

# ElAmir Mahmoud Mansour

## Software Engineer, Technical Project Manager and Arabic Tech Instructor

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Upwork: [upwork.com/freelancers/~01187811ff166a6ab1](https://www.upwork.com/freelancers/~01187811ff166a6ab1) | Mostaql: [mostaql.com/u/elamir\\_mansoura](https://mostaql.com/u/elamir_mansoura) |  
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## SUMMARY

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Software engineer and technical project manager who builds multi-tenant SaaS and AI products and leads the teams that ship them. Currently Technical Project Manager at Clario 360, Product Engineer behind the Elharef retail SaaS at AS Systems, and Training and Implementation Engineer at The Knowledge Hub. Teaches software engineering and AI in Arabic to 38,674 Udemy learners, holds a B.Sc. in Software Engineering and is completing an M.Sc. in Computer Science focused on NLP.

## EXPERIENCE

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### Training and Implementation Engineer, The Knowledge Hub

Remote (Dubai, UAE) | Jun 2026 - Present

- Roll out the TechnoKids LMS to K-12 schools across the region, mainly in Saudi Arabia, taking each school from setup to everyday classroom use.
- Deliver a structured 3-session teacher training program (platform overview, hands-on lab practice, Q&A clinic) to drive LMS adoption.
- Create teacher overview presentations and onboarding materials used across school rollouts.

Technologies: TechnoKids LMS

### Technical Project Manager, Clario 360

Remote (Saudi Arabia) | Jun 2026 - Present

- Lead a 5-person engineering team building a multi-tenant enterprise SaaS platform for regulated Saudi and GCC organisations, deployable as SaaS, on-premise or fully air-gapped.
- Run Scrum delivery in Jira across 11 milestones with a 12-item risk register, adding AI agents for planning and compliance review to speed up delivery.
- Optimised the team's workflow with a shared GitHub Actions quality gate and AI-assisted code review across repositories, making releases faster and more predictable.

Technologies: Node.js, TypeScript, Express, TypeORM, PostgreSQL, React, Vite, Docker, Ansible, GitHub Actions, Jira

### Product Engineer, AS Systems

Egypt | Jan 2025 - Present

- Owned Elharef, AS Systems' multi-tenant retail SaaS, end to end: product specs and flows, backend API, Arabic/English admin dashboard, storefront and production releases.
- Built a database-per-tenant architecture spanning 37 business domains and 100+ data models, with automated tenant provisioning, migration pipelines and per-tenant rate limits.
- Engineered a double-entry accounting ledger (chart of accounts, GL routing, reconciliation) tied to Paymob payments and Egyptian Tax Authority e-invoicing.

Technologies: Node.js, Fastify, TypeScript, Prisma, PostgreSQL, Next.js, React, TanStack Query, Zustand, OpenAI API, Meta Graph API, Paymob, PM2, Nginx, GitHub Actions

## **Software Developer, Instructor and Mentor, Freelance (Mostaql, Upwork)**

Remote | 2019 - Present

- Architected and developed an interactive gamified educational application for a Saudi government entity.
- Mentored 20+ developers one to one with structured career roadmaps, including adult learners moving into software development.
- Advised clients on scalable architecture patterns, technology stack selection and agile delivery for their software projects.

Technologies: Swift, SwiftUI, Flutter, Django, Next.js, Node.js

## **Learning Experience Team Lead and Project Manager, Thaki**

Remote | Jan 2026 - Jun 2026

- Directed end-to-end curriculum architecture and instructional design across regional technology learning tracks.
- Led cross-functional teams using Agile workflows and the ADDIE framework, delivering program milestones on schedule.
- Automated educational operations, quality assurance and content review pipelines to scale program delivery across multi-regional cohorts.

Technologies: ADDIE, Agile

## **PROJECTS**

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### **Keel: Local-First Workspace for Tech Leads, Open source (MIT)**

Sep 2026 - Present | keel-six-amber.vercel.app

- Designed and shipped Keel, an open-source local-first workspace for tech leads, from first commit to v0.6 in 8 days (~37K lines of TypeScript, 6 releases).
- Built an AI assistant that answers with numbered citations and proposes write actions for one-by-one approval, working with 10+ cloud LLM providers or fully offline models.
- Implemented management-ready outputs: to-scale timelines, one-slide steering views with baseline slippage, burn-up and cumulative-flow charts, and KPI scorecards.

Technologies: Next.js, React, TypeScript, IndexedDB, Dexie, Supabase, shadcn/ui, d3-force, Recharts, Vitest, Playwright, PWA

### **aicourse-studio: Course Video Pipeline, Personal project (private repo)**

Sep 2026 - Present

- Built a local Remotion pipeline that turns raw course recordings into captioned reels, branded carousels and hooks for Instagram, Facebook and TikTok (~22K lines in 11 days).
- Automated clipping end to end: on-device whisper.cpp transcription, ffmpeg and Remotion rendering, and handoff to a scheduling API with Gemini-written copy.
- Implemented word-by-word Arabic RTL captions with live highlighting, synced to speech pauses so no caption line is split across a cut.

Technologies: Remotion, React, TypeScript, whisper.cpp, ffmpeg, Python, Node.js

### **AutoReply Pro: Social Automation SaaS, Personal product**

May 2026 - Present | msg-response-auto.vercel.app

- Built and operate AutoReply Pro solo, a multi-tenant social automation SaaS on the official Meta and TikTok APIs (218 commits, ~115K lines, 101 test files).
- Engineered a durable Postgres job queue (write-before-ack webhooks, jittered retries, stale-claim reaper, atomic publish claims) that prevents double-publishing.
- Added Gemini-powered DM replies and Arabic-normalised keyword matching for comment-to-DM campaigns on Instagram and Facebook.

Technologies: Express, TypeScript, PostgreSQL, Supabase, Vercel, Heroku, Meta Graph API, TikTok API, Gemini API, Remotion, GitHub Actions

## **coursekit: Go CLI for Course Creators, Open source (MIT)**

Sep 2026 | [github.com/EIAmir-Mansour/coursekit](https://github.com/EIAmir-Mansour/coursekit)

- Shipped coursekit, an open-source Go CLI and TUI (~10K lines) that audits course recording folders for structure, runtime and publish blockers.
- Parsed MP4 headers in-process to total runtime (34 files in 15 ms) and added EBU R128 loudness checks and chapter-name typo detection.
- Distributed it through a Homebrew tap and GitHub releases, with CI and Go Report Card checks.

Technologies: Go, Bubble Tea, ffmpeg, GitHub Actions, Homebrew

## **claude-code-course-lab: Course Companion Codebase, Teaching project**

Aug 2026 | [github.com/EIAmir-Mansour/claude-code-course-lab](https://github.com/EIAmir-Mansour/claude-code-course-lab)

- Built the companion codebase for an Arabic Claude Code course: a zero-dependency multi-tenant SaaS API that learners extend module by module.
- Organised lessons as per-module branches with failure demos, keeping tenant isolation as the core rule and verifying it with node:test.

Technologies: Node.js, node:test, SQL, Claude Code

## **TEACHING AND CONTENT**

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### **Online Course Instructor, Udemy**

Online | Feb 2021 - Present | [udemy.com/user/elamir-mahmoud-mansour](https://udemy.com/user/elamir-mahmoud-mansour)

- Authored and published 11 Arabic programming courses on Udemy, reaching 38,674 learners and 67,354 enrollments as of October 2026.
- Earned 1,588 learner reviews; the three largest courses (Python, C# and Java for beginners) total 48,073 enrollments with ratings of 4.4 and above.
- Launched "Agentic AI: The Practical Guide" in Arabic in January 2026 (34 lectures, about 5.5 hours) on building AI agents and multi-agent systems, updated in September 2026.

### **Technical Content Creator, YouTube (@EIAmir)**

Online | Jul 2020 - Present | [youtube.com/@EIAmir](https://youtube.com/@EIAmir)

- Grew an Arabic software engineering channel to 5.41K subscribers, 360 videos and 299,823 views since July 2020.
- Produced a structured Go (Golang) curriculum series alongside tutorials on Swift and iOS, JavaScript async/await, algorithms and Agile roles.
- Shifted the channel to applied AI with tutorials on Claude Code with Remotion, Gemini CLI in Xcode via MCP, NotebookLM and building an LLM from scratch.

### **iOS Track Mentor, CAT Team, Mansoura University**

Mansoura, Egypt

- Mentored undergraduate engineering students in native iOS development with Swift and UIKit.
- Authored modular study guides, code labs and technical review summaries for the iOS track.

Technologies: Swift, UIKit

## **SKILLS**

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**Programming Languages:** TypeScript, JavaScript, Go, Python, Swift, SQL, Dart, Java, C#, PHP, HTML and CSS

**Backend and APIs:** Node.js, Express.js, Fastify, Prisma, TypeORM, Drizzle ORM, Django, REST API Design, Multi-Tenant SaaS Architecture, Software Architecture, Apache Kafka

**Frontend and Web:** Next.js, React, Tailwind CSS, shadcn/ui, TanStack Query, Three.js, Progressive Web Apps (PWA), Arabic RTL and i18n

**Mobile Development:** SwiftUI, UIKit, The Composable Architecture (TCA), HealthKit, MVVM and Clean Architecture, Xcode, Flutter, Firebase

**Databases:** PostgreSQL, PostgreSQL Row-Level Security, Supabase, Redis, pgvector, Qdrant, MySQL, DynamoDB

**AI and LLMs:** LLM Application Development, Agentic AI and Multi-Agent Workflows, Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP), Gemini API, OpenAI API, Vercel AI SDK, Genkit, Natural Language Processing (NLP), Computer Vision, whisper.cpp, Local LLMs (LM Studio, Ollama), Claude Code

**DevOps, Cloud and Tooling:** Git and GitHub, GitHub Actions (CI/CD), Docker, Ansible, Vercel, VPS Deployment (PM2, Nginx), Heroku, AWS (Aurora, DynamoDB), Vitest and Playwright, Postman, Cursor

**Integrations and Payments:** Meta Graph API, TikTok Content Posting API, Paymob, ETA E-Invoicing (Egypt)

**Project and Product Management:** Agile and Scrum, Jira and Atlassian Suite, Team Leadership, Delivery Planning and Milestones, Risk Management (RAID), Architecture Decision Records (ADRs), Product Specs and User Flows, Miro

**Learning Design and Training:** Instructional Design (ADDIE), Curriculum Design, LMS Implementation (TechnoKids LMS), Moodle, Articulate Storyline, Teacher and Technical Training, 1-on-1 Mentoring

**Content Production:** Online Course Production, Video Production with Remotion, ffmpeg, Technical Writing, Social Media Automation, Bilingual Content (Arabic and English)

## EDUCATION

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**M.Sc. in Computer Science (in progress),** Mansoura University, Faculty of Computers and Information Sciences

Mansoura, Egypt | 2024 - Present

- Researching depression detection from text using natural language processing (NLP).
- Applying the research in Depresso, an iOS mental-wellness app that pairs PHQ-8 screening with AI journal analysis.

**B.Sc. in Software Engineering,** Mansoura University, Faculty of Computers and Information Sciences

Mansoura, Egypt | 2019 - 2024

- Graduated with a cumulative GPA of 3.41.
- Graduation project Pearl, an AI skincare platform, graded A+ with Highest Honors.

## CERTIFICATIONS

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**Scholarship: E-Learning Development Track,** Information Technology Institute (ITI)

**Google Project Management Professional Certificate,** Google / Coursera

**Founder Academy,** ALX Ventures

**Agile with Atlassian Jira,** Atlassian / Coursera

**Egypt IoT and AI Challenge,** 8th Edition

**Java Programming: Software Engineering Fundamentals Specialization,** Duke University / Coursera

## HONORS AND AWARDS

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**A+ with Highest Honors: Graduation Project,** FCIS, Mansoura University

2024

- Awarded A+ with Highest Honors for Pearl, an AI skincare platform for acne assessment and treatment routines.

**Finalist: Silk Road,** IEEE Vectoris 3.0

- Reached the Finalist round leading the Silk Road team with an AI learning-path platform for software engineers.

### **Finalist, 4th Edition: SE Mentor Hub, IEEE Student Branch Hackathon**

- Reached the Finalist round with SE Mentor Hub, a mobile app connecting entry-level developers with mentors.

### **Finalist, 3rd Edition: Rahal, IEEE Student Branch Hackathon**

- Reached the Finalist round with Rahal, a tourism app connecting visitors with verified Egyptian local guides.

## **PUBLICATIONS**

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### **Technical Author, Medium (@elamir)**

Online | Present | [medium.com/@elamir](https://medium.com/@elamir)

- Publish English deep dives on Go, covering Go 1.26's Green Tea garbage collector, new(expr) pointer helpers and production crash pitfalls.
- Wrote a series on production AI with Genkit: multi-agent supervisor orchestration, resilient agent middleware, CI/CD evaluations and privacy-first RAG with local LLMs.
- Covered agentic developer tooling, including agentic AI workflows in Xcode and Go's official pkg.go.dev API and MCP support.

## **VOLUNTEERING**

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### **Member, Project Management Institute (PMI)**

Present

## **LANGUAGES**

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Arabic: Native, English: Professional fluency (Duolingo English Test: 125), German: Basic