

MOHAMED LOTFY

Tech Lead · Spec-Driven Development · Agentic Coding | Alexandria, Egypt
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PROFESSIONAL SUMMARY

Results-driven software engineer and AI advisor with 13+ years delivering scalable, high-performance web applications across SaaS, e-commerce, and enterprise platforms. Specialized in the MERN stack, Next.js, and NestJS — a proven Tech Lead with a track record of building engineering teams, architecting APIs, and shipping CI/CD pipelines on Docker and Kubernetes.

LinkedIn thought leader actively sharing insights on Spec-Driven Development (SDD), agentic coding workflows with Claude Code, and the latest AI developer tools. Passionate about leveraging AI to multiply engineering velocity while maintaining architectural rigor and code quality.

AI-AUGMENTED DEVELOPMENT & THOUGHT LEADERSHIP

LinkedIn AI Influencer — Recognized voice in the AI developer tools community. Actively publishing hands-on reviews, tutorials, and best practices on agentic coding, Spec-Driven Development, Claude ecosystem tools, and emerging AI workflows. Helping developers and engineering leaders adopt AI tools effectively through real-world insights and practical guidance.

Spec-Driven Development (SDD)

- Practitioner of Spec-Driven Development — a methodology that treats specifications as the primary development artifact, with code generated from human-authored specs rather than ad-hoc prompting
- Apply the spec-first workflow: define requirements, architecture, and task decomposition upfront, then delegate implementation to AI agents (Claude Code, Cursor) with full context isolation and atomic commits
- Leverage CLAUDE.md memory files, subagent orchestration, and context engineering to maintain architectural coherence across multi-file refactors and complex feature builds
- Champion structured AI workflows over vibe coding — ensuring AI-generated code meets production quality standards through phase-gate reviews and specification anchoring

AI Developer Toolchain (Hands-on Expertise)

Agentic Coding:

Claude Code (subagents, tasks, hooks, MCP)
Cursor AI (agent mode, multi-file refactors)
Windsurf (Cascade AI agent, parallel sessions)
GitHub Copilot (inline completions, chat)
Codex (autonomous coding agent, CLI)

AI Platforms & Productivity:

Claude (Anthropic) (analysis, spec writing, docs)
ChatGPT / GPT-4o (research, code review)
Gemini (multimodal, code generation)
MCP Servers (tool integration, external services)

SDD & Context Engineering:

GitHub Spec Kit (spec-driven workflows)
CLAUDE.md / AGENTS.md (project memory)
cc-sdd (requirements → design → tasks)

Code Quality & Review:

Tabnine (AI code suggestions)
Codium / Qodo (AI code generation & review)
Lovable / Bolt (rapid prototyping, app builders)

CORE COMPETENCIES

React.js / Next.js / Redux	Node.js / NestJS / Express.js	Docker / Kubernetes / CI/CD
TypeScript / JavaScript (ES6+)	RESTful APIs / GraphQL	Agile (Scrum / Kanban)
React Native (Mobile)	MongoDB / MySQL	Team Leadership / Mentoring
Ant Design / Tailwind CSS	Microservices Architecture	SOLID / DDD / Design Patterns

PROFESSIONAL EXPERIENCE

Tech Lead | Senior Specialist

Boud | Saudi Arabia (Remote)

Mar 2026 – Present

- Promoted to senior leadership role overseeing engineering strategy, team coordination, and technical decision-making across product lines
- Integrate AI-augmented workflows using Claude Code and Cursor AI, applying Spec-Driven Development to reduce rework and accelerate feature delivery
- Drive adoption of agentic coding practices and context engineering across the engineering organization
- Mentor engineering leads and champion a culture of continuous learning, knowledge sharing, and AI tool adoption

Tech Lead

Boud | Saudi Arabia (Remote)

Sep 2023 – Mar 2026

- Led a cross-functional software engineering team delivering high-performance web applications with React, Next.js, and TypeScript
- Architected scalable component libraries using Ant Design and CSS pre-processors (LESS, SASS), ensuring design consistency across multiple product lines
- Enforced code review standards, OOP principles, and front-end best practices, reducing production bugs and improving team velocity within agile workflows
- Mentored junior and mid-level developers through pair programming, technical workshops, and structured onboarding processes

Tech Lead

Bab Rizq | Egypt

Jul 2021 – Aug 2023

- Provided technical vision and leadership, defining architecture, technology stack, and engineering roadmap for the company's digital products
- Spearheaded development of responsive Next.js applications with server-side rendering, improving SEO performance and initial load speed
- Built advanced data visualization dashboards to analyze large-scale datasets, directly supporting data-driven business decisions
- Managed and coordinated the engineering team to deliver high-quality releases on schedule, aligning engineering output with business objectives

Tech Lead

Affilih | Egypt (Remote)

May 2019 – Jun 2021

- Provided end-to-end technical leadership across architecture, technology stack selection, and engineering roadmap for the company's product suite
- Led architecture and development of monolithic and modular applications using Node.js, Express, React, and Next.js, containerized with Docker
- Created a reusable UI component library adopted by the full-stack development team, accelerating feature delivery across projects
- Defined and maintained MongoDB schemas and data models with Mongoose, ensuring data integrity and query performance at scale

Senior Frontend Engineer

Taqneen Solutions | Saudi Arabia / Egypt

Apr 2018 – Apr 2019

- Developed responsive web and cross-platform mobile applications using React and React Native, serving thousands of active users
- Implemented complex, interactive data visualizations to surface user insights, improving product engagement and retention metrics
- Collaborated with cross-functional teams (product, design, QA) in a fast-paced environment to deliver features on tight deadlines

Full-Stack Engineer

Talents Arena | Egypt (Hybrid)

Feb 2016 – Mar 2018

- Designed and built three enterprise portals (admin, client, candidate) using Node.js/NestJS for backend and React for frontend interfaces
- Optimized database queries and application performance for high concurrent user traffic, reducing average API response times
- Translated stakeholder requirements into technical specifications and led implementation through agile sprint cycles

Backend Developer

Terkwaz Business Solutions | Jordan (Remote)

Nov 2013 – Jan 2016

- Developed and maintained RESTful APIs within a microservices architecture using Node.js, Express.js, and Docker
- Designed MongoDB schemas, optimized data persistence layers, and managed background task scheduling with GCP Task Scheduler

Full-Stack Web Developer

Freelance | Remote

Jan 2012 – Oct 2013

- Delivered end-to-end web solutions for diverse clients, handling requirements gathering, UI/UX design, frontend and backend development, and deployment
- Built custom websites and web applications using JavaScript, PHP, HTML/CSS, and various CMS platforms, establishing a foundation for full-stack expertise

TECHNICAL SKILLS

Frontend: React.js, Next.js, Redux, React Native, TypeScript, JavaScript (ES6+), Tailwind CSS, Ant Design, Bootstrap, LESS, SASS, jQuery

Backend: Node.js, Express.js, NestJS, PHP, MongoDB, Mongoose, MySQL, RESTful APIs, GraphQL

DevOps & Cloud: Docker, Kubernetes, CI/CD Pipelines, GCP Task Scheduler, Swagger/OpenAPI

AI & Agentic Dev: Claude Code (subagents, MCP, tasks, hooks), Cursor AI, Windsurf, GitHub Copilot, Codex, ChatGPT, Gemini, Tabnine, Codium/Qodo, Lovable, Bolt

Methodologies: Spec-Driven Development (SDD), Context Engineering, Agile (Scrum/Kanban), SOLID, DRY, KISS, YAGNI, Domain-Driven Design, Microservices Architecture

Tools: Git, Jira, Postman, VS Code, CLAUDE.md/AGENTS.md, GitHub Spec Kit, cc-sdd

EDUCATION

B.Sc. in Computer Science

Mansoura University, Egypt

2016 – 2020

Self-Directed Learning: Continuous professional development in software engineering, AI-augmented workflows, system design, and emerging technologies (2010 – Present)

LANGUAGES

Arabic (Native) | English (Advanced Professional)

INTERESTS & ACHIEVEMENTS

Competitive Cycling: 1st Place – Egypt Marathon, Kafr El-Sheikh, 2023 | **Swimming & Fitness** | **Travel & Languages**