

KHALED ELGAMAL

Full Stack Developer | Software Engineer

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Portfolio: khaledelgamal.com

PROFESSIONAL SUMMARY

I'm a Full Stack Developer with 1+ years of professional experience in web application development and a Bachelor's degree in Computer Science and Artificial Intelligence. Proven track record of leading AI projects with and developing web applications across business, healthcare, and travel sectors. Expertise in JavaScript frameworks, Node.js, React, Next.js and modern web technologies with demonstrated ability to optimize application performance and reduce load times by implementing best practices in full-stack development.

WORK EXPERIENCE

Front-end Developer at Tuba

Sep 2025 – Present

Tuba is a digital platform that manages and optimizes employee healthcare benefits using technology and AI.

Working on multiple portals within a microfrontend architecture, handling daily bug fixes and feature development while ensuring compliance with Saudi healthcare insurance regulations.

Key contributions:

- Developed and maintained 3 portals (Provider, Provider Manager, Network) using React, TypeScript, MUI, Tailwind, Vite Federation, and Redux with lazy loading optimization.
- Implemented extensive performance optimizations (caching, memoization, and bundle improvements), reducing initial loading time from 10 seconds to 1–2 seconds and boosting the portal's performance score from ~76% to 97%+ according to PageSense analytics.
- Integrated RPC and RESTful APIs, implemented WebSocket connections for real-time data updates, and built charts and statistics features.
- Documented complex bugs via Jira and maintained 100% estimation accuracy on task deliveries.
- Contributed to shared component library integrated across portals via Vite Module Federation.

Full Stack Developer at Tech Hive

June 2024 – Aug 2025

Tech Hive is a specialized technology company in the field of information technology and advanced digital solutions.

I have been responsible for and actively involved in developing various projects of different scales and sizes, utilizing a wide range of technologies.

These projects include:

AppASAP (Low-code AI-driven app builder)

- **Developed roles & permissions management system** (including custom roles & permissions) allowing users to configure and manage access control via the portal or through the integrated AI agent.
- **Refactored the project generation pipeline:** transitioned from a monolithic auto-generation flow to a step-by-step pipeline with user confirmations.
Result: Improved interactivity and reduced generation errors, leading to 5× increase in active users.
- **Collaborated with AI agent features integration**, enabling users to manage and modify schemas, roles, and configurations through natural language.

ESSAM AI (Process Automation & Optimization SaaS)

- Led 90% of product development, delivering a full-stack SaaS platform that automates process elimination, optimization, and documentation.
- **Major contributions:**
 - **Core Features:** Implemented secure user authentication (OTP, password reset, profile management), AI-powered chat with advanced capabilities (message editing, attachments, threaded conversations, auto titles, history management).
 - **Stripe Subscription Integration:** Integrated Stripe billing & subscription system with webhooks, enabling multi-method payments and automated subscription lifecycle (signup, renewals, cancellations).
 - **API Migration:** Transitioned backend from OpenAI Assistants API → Responses API, while maintaining chat history, user data, and existing workflows.
 - **Process Visualization & Documentation:** Built swimlane diagram integration, optimized process flow generation, and added export-to-presentation feature (SOPs, optimized processes, summaries).
 - **Team & Collaboration:** Added team management (invites, roles, permissions) with consistent UI/UX improvements (responsive design, bug fixes, navigation logic).
- **Impact:** Delivered a functional SaaS MVP from scratch (backend, frontend, AI integration, billing system), making the platform production-ready and monetizable.

TECHNICAL SKILLS

Programming:

JavaScript, TypeScript, C++, C#, Python, Java

Frontend:

React.js, Next.js, HTML5, CSS3, Tailwind CSS, React Router, React Query

Backend:

Node.js, Express.js, Nest.js, Fastify

State Management:

Redux, Zustand, Context API

Databases:

MongoDB, PostgreSQL, MySQL

APIs & Tools:

RESTful APIs, GraphQL, WebSockets, Socket.IO, JWT, Prisma, Mongoose

Development Tools:

Git, GitHub, Jest, Postman, TDD, Docker

Methodologies:

Agile/Scrum, OOP, Functional Programming, MVC

Deployment & Cloud:

Vercel, Netlify, Render, AWS (EC2, S3, RDS), PM2

EDUCATION

Bachelor of Computer Science and AI

Grade: Very Good

2019 - 2023

Cairo University,

Graduation Project: Thief Detection System Graduation Project (**Grade: Excellent**)

Technologies: Artificial Intelligence, Python, Deep Learning, Computer Vision.

TRAINING & CERTIFICATIONS

MCIT Digital Scholarship (Node.js) - Sep 2022

React 18 Tutorial & Projects - Dec 2023

Complete Node.js Developer Course - Feb 2024

Linux Administration Bootcamp: Go from Beginner to Advanced – Nov 2025

KEY ACHIEVEMENTS

- 100% sprint task delivery with zero critical bugs
- Led AI projects with 25% performance improvement
- 5x increase in active users through optimization
- Production-ready SaaS development from concept

LANGUAGES

Arabic: Native

English: Conversational