

Anas Hamad

Full-Stack Software Engineer & IT Specialist

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- 4th District, 6th of October City
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SUMMARY

Result-driven Full-Stack Software Engineer and IT Specialist with a BSc in Computer Science from Ahram Canadian University. Proven expertise in architecting scalable web applications, secure networking protocols, and cloud-integrated solutions. Adept at utilizing Next.js, Node.js, Python, and modern databases (SQL/MongoDB) to build high-performance systems like SaaS platforms and automated enterprise ERP tools. Strong background in IT infrastructure management, system optimization, and AI-driven workflow automation. Passionate about leveraging robust technical solutions to solve complex business challenges.

EXPERIENCE

IT Manager & Lead Developer 2023 - Present
Al-Saad Mall | Kafr El-Sheikh, Egypt ↗

- Designed, developed, and deployed an internal web-based ERP system from scratch to streamline inventory tracking, manage stock levels, and automate billing/invoicing processes.
- Administer the facility's IT infrastructure, managing hardware configurations, POS systems, and network stability to ensure efficient daily operations.
- Optimize staff workflows by transitioning from manual operational tasks to automated software solutions, significantly reducing administrative overhead.
- Oversee digital infrastructure and technical coordination, bridging the gap between business management and technology.

Full-Stack Software Engineer (Independent & Freelance Projects) 05/2022 - Present
Filemind ↗

- FileMind (filemind.site):** Architected and deployed a comprehensive cloud-integrated web platform utilizing Next.js, Node.js, AWS, and MongoDB.
- Integrated OpenAI APIs into FileMind for automated file management, data summarization, and intelligent tagging.
- ShadowNet Project:** Engineered a custom encrypted networking system and Electron browser client utilizing raw TCP frame protocols, ECDH handshakes, and AES-256-GCM encryption for highly secure data transport and custom domain resolution.
- Developed automated Python and Node.js scripts leveraging advanced generative AI APIs (such as Google Veo and OpenAI) to optimize pipelines and calculate dynamic API usage costs.

EDUCATION

Computer Science 2018 - 2023
Ahram Canadian University (ACU) | Egypt - Bachelor's degree

SKILLS

Languages & Frameworks

Electron CSS3

HTML5	Next.js
JavaScript	Python
Node.js	
Databases & Cloud	
AWS (Storage & Deployment)	SQL
Prisma ORM	MongoDB
IT & Cybersecurity	
OBS Studio / Audio Routing	Network Protocols (TCP, ECDH, AES-256)
System Administration	Linux (Kali, Tails OS)
Hardware Assembly & Configuration	
AI & API Integration	
Generative AI integration (Veo, Leonardo AI, ComfyUI/AnimateDiff).	OpenAI API
Soft Skills	
Workflow Automation	Cross-cultural Communication
Time Management	Complex Problem Solving

LANGUAGES

English	Advanced	Arabic	Native
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