Mahmoud **Abas**

SENIOR SOFTWARE ENGINEER · TECH LEAD

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"Developers don't just write code, they write the future"

Summary

Senior Software Engineer & Tech Lead with 8+ years building cloud-native products across **FinTech**, **PropTech**, **HealthTech** and **E-commerce**. Full-stack specialist who led teams of 20+ engineers and shipped tens of customer apps serving hundreds of thousands of users. National Innovation 10 winner. Mentor and lecturer bridging academic AI research with production-grade systems.

Work Experience

Faculty of Computers and Information Sciences, Mansoura University
Mansoura, Egypt
DEMONSTRATOR · *Jun 2024 – Present*

- Provide academic instruction and mentorship in computer science.

Spider Tech
Mansoura, Egypt
TECH LEAD · *Jun 2020 – Jun 2024*

- Led the development and launch of multiple innovative software products in FinTech, PropTech, HealthTech and E-commerce and Entertainment.
- Managed teams of +20 developers, secured resources, and oversaw end-to-end product delivery.
- Focused on full-stack development, architecture design, and strategic technical direction.

Cairo International Airport
Cairo, Egypt
TECHNICAL SPECIALIST (NATIONAL SERVICE) · *Jun 2023 – Jun 2024*

- Provided IT support and contributed to critical technical operations during mandatory military service.

BeesTech
Saudi Arabia (Remote)
TECHNICAL TEAM LEAD — PART-TIME (REMOTE) · *Nov 2022 – Jun 2023*

- Led a team of developers to design and deploy enterprise-grade web applications.
- Facilitated agile development and ensured on-time delivery of client-focused solutions.

Lot IT
Saudi Arabia (Remote)
TECHNICAL TEAM LEAD — PART-TIME (REMOTE) · *Nov 2022 – Jun 2023*

- Managed distributed teams building scalable web platforms for Saudi clients.
- Collaborated on architecture design and sprint planning in a fully remote environment.

Alfa Egypt Group
Mansoura, Egypt
TECHNICAL TEAM LEAD · *Jul 2019 – Apr 2020*

- Led small-scale projects aligning technical execution with business goals.
- Improved internal infrastructure and managed developer coordination.

Self-Employed
Remote
FREELANCE JAVA DEVELOPER · *Jan 2017 – Oct 2020*

- Developed custom Java applications and APIs.
- Automated workflows and delivered scalable backend systems.

Self-Employed
Remote
TECHNICAL BLOGGER · *May 2015 – May 2017*

- Authored technical blog posts on software, development trends, and engineering concepts.

Honors & Awards

2023	**First Place Winner (Nationally Televised),** Innovation 10 Competition – Scientific Innovations in IoT & AI, for DermAI project; honored by Egypt's Ministers of Youth and Higher Education.	*Ministry of Youth and Sports, Egypt*
2023	**Joint 2nd Place – Arab Youth Excellence Award,** For DermAI project; honored by Egypt's Minister of Youth.	*League of Arab States, Egypt*

Education

Mansoura University *Mansoura, Egypt*

Pre-Master in Artificial Intelligence *Jan 2022 – Dec 2023*

- Conducted research on AI applications in medicine, with a focus on wearable devices for early disease detection.
- Completed coursework in Neural Networks, Distributed Systems, Bioinformatics, and Advanced Algorithms.

Mansoura University *Mansoura, Egypt*

B.Sc. in Computer Science *Jan 2018 – Dec 2022*

- Graduated with distinction (Grade: 92.26%) — **ranked top of class for 4 consecutive years**.
- Developed a graduation project on AI for skin disease diagnosis using deep learning.

Ekhtab Secondary School *Mansoura, Egypt*

General Secondary Certificate (Science Division) *Jan 2015 – Dec 2018*

- Achieved a final score of 95.98%.

Skills

Back-end	Java (Spring Boot, Vaadin, Microservices), PHP (Laravel), Python (Django, Flask), Node.js (Express)
Mobile Development	Android (Java, Kotlin), Flutter, Codename One,
Front-end	Vue.js (basic), HTML5, CSS3, Bootstrap
DevOps	AWS, Docker, GitHub Actions (CI/CD)
Software Analysis	Basic understanding of software analysis principles and system design evaluation
Networking & Cybersecurity	Basic understanding of network protocols and security best practices for web and mobile development
Artificial Intelligence	Academic and practical knowledge of AI principles, Deep Learning, Neural Networks and Agentic AI

Volunteer Leadership

ZerOne Team, Mansoura University *Mansoura, Egypt*

Technical Circle Head *Apr. 2019 – Dec. 2020*

- Led the technical circle in coordinating projects, mentoring students, and organizing internal development initiatives.
- Spearheaded the creation of a performance evaluation app and a global-facing team website.
- Delivered a public talk titled "How to Start?" to help students enter the tech field.

ZerOne Team, Mansoura University *Mansoura, Egypt*

Scientific Circle Head *Sep. 2018 – Apr. 2019*

- Managed scientific research efforts and guided academic projects across interdisciplinary teams.
- Promoted collaborative learning and organized workshops on emerging technologies.

Projects

DermAI — AI Skin Disease Diagnosis App

Lead Developer

- Developed an award-winning AI-based application diagnosing over 620 skin conditions.
- Won First Place in Innovation 10 Competition; featured on national television.
- Built DermaAI's diagnosis engine on a cloud-native **Microservices** stack, enabling zero-downtime releases and scaling.

Rehan Capital Investment Platform — Saudi Arabia

Tech Lead

- Led development of a crowdfunding platform enabling real estate investment in Saudi Arabia.
- Designed scalable architecture for secure financial transactions.

Sawalef — Social Entertainment

Lead Developer

- Created a virtual room-based entertainment app with voice chat and interactive features.
- Focused on performance and community engagement mechanics.

Haya Al-Asaf — Quran Memorization App

Lead Developer

- Built an educational platform managing sessions, teachers, students, and parents.
- Streamlined operations for multiple Quran circles across Saudi Arabia.