

Mohamed Khaled

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Profile / Summary

Motivated and detail-oriented **Software Engineer** with 2+ years of experience in developing scalable web and backend applications. Skilled in modern programming languages, frameworks, and cloud technologies. Passionate about problem-solving, optimizing performance, and delivering high-quality software solutions.

Technical Skills

- **Programming Languages:** Java, Python, JavaScript, C++
 - **Web Development:** React, Node.js, Express, HTML5, CSS3
 - **Databases:** MySQL, PostgreSQL, MongoDB
 - **Cloud & DevOps:** AWS, Docker, GitHub Actions, Kubernetes
 - **Tools:** Git, Linux, VS Code, IntelliJ, PyCharm
 - **Other:** Data Structures & Algorithms, REST APIs, OOP
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Experience

Software Engineer

TechVision Solutions – Cairo, Egypt | *Jan 2023 – Present*

- Developed a scalable web application using React and Node.js, serving 5,000+ active users.
- Integrated PostgreSQL database and optimized queries, reducing response time by 30%.
- Automated CI/CD pipelines with GitHub Actions, improving deployment efficiency.
- Collaborated with a 6-member Agile team to deliver projects on time.

Software Engineer Intern

Innovatech Labs – Giza, Egypt | *Jul 2022 – Dec 2022*

- Assisted in building RESTful APIs for e-commerce platforms.
- Wrote unit and integration tests, achieving 85% code coverage.
- Participated in daily Scrum meetings and sprint planning.

Freelance Developer

Remote | *Feb 2021 – Jun 2022*

- Designed and developed custom websites for 7+ small businesses.
 - Built Python-based data scraping tools to automate data collection.
 - Deployed applications on AWS EC2 with Docker for scalability.
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Education

Bachelor of Science in Software Engineering

Cairo University – Cairo, Egypt | *Sep 2018 – Jul 2022*

- GPA: 3.6 / 4.0
 - Relevant coursework: Algorithms, Computer Networks, Database Systems, Operating Systems.
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Projects

- **Image Compression with Vector Quantization (Java):** Implemented LBG and K-means for compressing 45 color images.
 - **Image Captioning Model (PyTorch & TensorFlow):** Converted a Keras-based model to PyTorch and deployed via Flask & Ngrok.
 - **NLP RAG Pipeline (LangChain):** Built an AI system to query PDFs using embeddings and Cohere API.
 - **Portfolio Website:** Personal portfolio built with React & Tailwind, deployed on Vercel.
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Certifications

- AWS Certified Cloud Practitioner – Amazon Web Services (2024)
- Machine Learning Specialization – Coursera (2023)

- Data Structures & Algorithms – Udemy (2022)
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Languages

- English – Fluent
- Arabic – Native