

Martin Wassim

Software developer, AI
enthusiast & founder

📅 Available

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📍 Giza, EG

📅 06/2005

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Summary

Computer Science student and tech founder with practical experience in full-stack development, AI/ML, desktop applications, and CRM systems. Founded Systemize EG to help businesses scale with smart technology. Certified in AI, deep learning, and Python through ITI and Kaggle. Passionate about building real-world software solutions.

Experience

Systemize EG · Egypt

Founder

12/2025 - Present

- Built and delivered a custom Daily Sales Management System (POS) with Arabic-first UI, multi-payment support, and Excel reporting using Java Swing and Apache POI
- Designed CRM solutions and smart automation systems for business clients
- Developed websites and digital tools to help businesses work smarter and scale faster
- Managed full product lifecycle: requirements, development, delivery, and client support

Skills

Programming languages: Python · Java · JavaScript · HTML · CSS

AI & machine learning: Deep learning · Neural networks · Computer vision · PyTorch / TensorFlow · Genetic algorithms · Optimization · Probability & statistics

Development & tools: Java Swing · Apache POI · Tkinter · CRM systems · Responsive web design · OOP · Excel integration

Design & marketing: Adobe Photoshop · Digital marketing · Business ownership · Startups

Projects

Waste Classification Neural Network (WasteNet)

Python · PyTorch · Flask ·
ViT · CNN

Deep learning system for automated waste classification into 6 categories (plastic, paper/cardboard, metal, glass, organic, e-waste). Benchmarked multiple architectures including baseline CNN, improved CNN, transfer learning, and Vision Transformer (ViT); deployed best model as a local inference server with an interactive web dashboard.

VRP solver genetic algorithm & differential evolution

Python · Tkinter ·
Evolutionary algorithms

Desktop app comparing GA and Differential Evolution for capacity-constrained multi-vehicle routing with interactive GUI and route visualization.

Daily Sales Management System (POS) Java · Java Swing · Apache
POI

Arabic-first desktop POS with multi-payment support (Cash, Visa, InstaPay, Vodafone Cash), seller management, expense tracking, and Excel export/import.

Inventory management system Java · Java Swing

Full-featured inventory system for supermarkets and pharmacies with product management, expiry alerts, admin/client modules, and profit reporting.

Hospital & healthcare website HTML · CSS · JavaScript

Responsive healthcare platform with appointment booking, doctor search, telemedicine, lab test booking, patient portal, and admin panel.

Information System & Network Security Kali Linux · Nmap · Burp

Pentest Project Suite · Web Security

Performed penetration testing on a vulnerable e-commerce system, exploiting multiple vulnerabilities such as SQL Injection, XSS, Command Injection, and Privilege Escalation. Conducted network enumeration, password cracking, and security analysis with full technical documentation.

Certificates

Artificial Intelligence (90 hours) – Information Technology Institute (ITI)

Getting Started with Deep Learning – NVIDIA

Deep Learning in Python – DataCamp

Natural Language Processing in Python – DataCamp

Image Processing in Python – DataCamp

Computer vision & intro to deep learning – Kaggle

Python essentials 1 – Cisco Networking Academy & Python Institute

Education

Helwan National University	Computer Science · Robotics and Software Engineering	09/2023 - 09/2027
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Languages

Arabic	native
English	professional