

Hana Yehia

Software Engineer

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As a resolute and driven Recent Software Engineering Graduate from Cairo University, ranked in the top 25 students at my college. Committed to excellence, I strive to contribute to my school, peers, and community through hard work and service.

EDUCATION

Cairo University

October 2020–July 2024

Bachelor's degree in computer science and Artificial Intelligence

Grade: Very Good

AREAS OF EXPERTISE

- Python (Django)
- Machine Learning & AI
- Angular, React
- Java (Spring Boot)
- PostgreSQL, MySQL
- Docker & Kubernetes
- RESTful API Development
- Git, GitHub & Jira
- C++ & C#

GRADUATION PROJECT

GradesUP

Completed: 2024

Grade: A+

- Developed a comprehensive online learning platform with roles for admins, students, and instructors using Python, Angular, and Java Spring Boot.
- Implemented advanced AI features for proctoring, automated user management, and personalized learning experiences using Hugging Face for API requests.

PROFESSIONAL EXPERIENCE

Smarti Inc.

Fukuoka, Japan(on-going)

Backend Developer Intern

September 2024–November 2024

- Developing backend solutions using Python for machine learning projects, including speech recognition and image correction.
- Enhancing existing models and algorithms for improved performance and accuracy.
- Collaborating with cross-functional teams to integrate machine learning solutions into production systems.

Softylus Technologies

Zarqa, Jordan (Remote)

Python Backend Developer Intern

December 2023–March 2024

- Developed and optimized RESTful APIs for a scalable microservices architecture, reducing latency by 15%.
- Implemented automated testing for backend services using PyTest, increasing code coverage by 30%.
- Collaborated with frontend teams to integrate APIs, resulting in a 20% improvement in application performance.
- Streamlined database queries, leading to a 25% reduction in response time.

AMIT Learning

Cairo, Egypt

Python Backend Instructor

April 2024–August 2024

- Designed and delivered a comprehensive Python backend development course, achieving a 95% student satisfaction rate.

- Mentored 11-14 students, aged 25-45, in project-based learning, leading to a significant increase in student engagement.
- Developed course materials and assessments aligned with industry standards, enhancing the curriculum's relevance.

GOMYCODE

Python Instructor

Cairo, Egypt

June 2023–September 2023

- Delivered Python programming instruction to a diverse group of students, achieving a 100% satisfaction rate.
- Designed and implemented interactive coding exercises and projects that promoted hands-on learning and practical skill development.

Projects

Functioning Online Learning Platform

- Architected a comprehensive learning platform using EJBs and Java Spring Boot with PostgreSQL. Integrated both monolithic and microservices approaches and Dockerized the application for scalable deployment.

Automated Parking System

- Created a Java-based automated parking management system, applying design patterns to handle dynamic space allocation and real-time occupancy. Addressed concurrency and data access challenges, integrating features such as automated ticketing and payment processing.

Fawry-like Financial Software System

- Developed a secure financial software system in Java with robust API integrations for transaction processing. Focused on backend reliability and user experience, ensuring high transaction security.

Checkers Game

- Developed an interactive checkers game in Python with a GUI and minimax algorithm for AI. Enabled multiple gameplay modes (PvP, PvC, CvC) and delivered an engaging and challenging user experience.

Clinic Reservation System

- Engineered a comprehensive web-based clinic reservation system using Django for the backend, Angular for the frontend, and MySQL for data management. Streamlined appointment scheduling for patients and doctors with an intuitive interface. Implemented Dockerization using Nginx, creating distinct Docker images for each component (frontend, backend, and database) to ensure consistent and efficient deployment.

Stock Management System with Admin Dashboard

- Built a robust stock management system using Python and PostgreSQL, featuring an integrated Django admin dashboard. Managed database design, backend development, user authentication, and conducted thorough testing to ensure reliability and user-friendly inventory management.

Dataset Classification

- Classified images from multiple datasets (Gender Classification, Garbage Classification, Bone Fracture X-Ray) using Python. Performed experiments with SVM, Neural Networks, and CNNs on both grayscale and RGB images. Assessed model performance through confusion matrices and F1 scores, identifying the most effective model based on comparative analysis