

Omar Alaraby

Software Engineer

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Objective

As a fresh graduate software engineer, I am seeking a full-time Backend Software Engineer position starting immediately.

Education

Computer Science

2021-2025

Suez Canal University

Military Status : **Exempted**

Experience

Problem Solving Instructor

Coach Academy | Part-Time Remote

2024 - present

- Delivered lessons on data structures, algorithms, and advanced topics like recursion, binary search, trees, and graphs.
- Guided students in algorithmic thinking and competitive programming.
- Provided personalized support to improve analytical skills and coding efficiency.

Projects

Wassally – Multi-Platform Delivery Ecosystem

System Architecture & Technical Docs: [Project Architecture](#)

Django, PostgreSQL, REST API, Celery, Redis, CI/CD pipelines

- Designed and developed the backend system powering Wassally, a **production delivery ecosystem** used daily by real delivery crews and **actively generating profit**.
- Built and maintained APIs for three integrated apps: Wassally (users), Wassally Business (shop owners), and Wassally Drivers (delivery crews), enabling end-to-end order management.
- Developed a web-based staff management portal for handling crew onboarding, operational workflows, and overall supervision.
- Implemented modules for **real-time order tracking**, delivery status updates, and shop-side sales management.
- Engineered analytics features to calculate business profits and crew income, helping optimize financial and operational efficiency.
- Currently working on scaling the platform** to handle growing demand and expanding feature capabilities.

ICPC Community System | <https://icpc-scu-official-website.netlify.app>

Django, PostgreSQL, REST API, Redis

- Created a public website and internal dashboard with Django REST framework, Django Web and **PostgreSQL database**.
- Created a partners board with Django web framework.
- Launched the website is **running in production environment** and attracted **over 1000 of users**.

Orbix (Graduation Project) | <https://github.com/Database-Hosting-Services/API>

Golang, Python, PostgreSQL, RAG (Retrieval-Augmented Generation), Gemini API

- Developed a Database Hosting Service using **Golang** and PostgreSQL and secure, isolated multi-tenant storage.
- Implemented TDD for reliable, maintainable code with full **unit test coverage**.
- Built and integrated an AI agent using **Gemini LLM + RAG** to assist users in SQL optimization and security checks.
- Handled end-to-end AI pipeline, including vector indexing with **Pinecone** and contextual response generation.

Volunteering

Community Vice Leader | ICPC SCU Community

2023 - 2024

I was managing the community training, events and competitions, I helped to develop new training systems

DEV Team committee founder and head | ICPC SCU Community

2023

I was managing the community's products like the official website, and I was the leader of the back-end developers.

I used to assign tasks to members after designing the project's features.

IT specialist and Instructor | ICPC SCU Community

2022 - 2023

I was helping students to improve their skills in problem solving and Competitive programming. I

also used to make problem sets and contest for level 0, 1 training.

Skills

Programming Languages : C, C++, Python, Golang, JavaScript

Technologies & tools : Django, DRF, databases, PostgreSQL, SQL, OOP, Git & Github

Miscellaneous : Problem Solving, algorithms, Linux, SOLID principles, design patterns, System design, CI/CD pipelines

Certifications

Egyptian Collegiate Programming Contest (ECPC) | (Certificate Link)

2023

I have qualified for the ECPC after achieving the 2nd place in my university and the 3rd place overall among 12 universities in the ECPCQ.

Back-End development with python | (Certificates Link)

May 2023

Python - Databases - Version Control - Django Web framework - Django REST framework - Full Stack Development