Mohamed **Abdelhamid**

SOFTWARE ENGINEER | BACKEND DEVELOPER

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EDUCATION

- **Computer & Control Systems Department** — Mansoura, Egypt
  Bachelor's Degree in Computer Engineering, GPA: 83.5 / 100 — *Sep. 2017 – Jul. 2022*
- **Graduation Project "Qorb"** ⌨ — Oct. 2021 – Jul. 2022
  An e-learning platform in Arabic for deaf and mute students, focusing on making their learning easier.
  Designed and implemented a database schema, facilitated multiple user type registrations, developed a quiz system, integrated Agora API for real-time meetings, implemented real-time chat through Django signals, and Utilized Docker for containerization.

EXPERIENCE

- **SiaForce** — Remote
  Backend Developer — *Nov. 2023 – Present*
  Develops Python scripts utilizing the Telegram API for data extraction, implements data processing solutions, and integrates with ElasticSearch for enhanced security intelligence tools,employing technologies such as Python,Django, Postman, Elastic Search.
- **Sefprotrade** — Freelance
  Backend Developer — *Apr. 2022 – May. 2022*
  Developed backend logic using Django REST Framework, implemented containerization with Docker for consistent performance, utilized Nginx for static file serving and proxy, and deployed the application on Digital Ocean, employing technologies such as Python, Postman, PostgreSQL, and Docker.

PROJECTS

- **E-Commerce Backend** ⌨: Developed a RESTful API for an e-commerce platform with integrated modules, including a secure user authentication system, customized CRUD operations, and advanced permissions. Utilized Docker for containerization, Swagger for API documentation, and conducted extensive testing with pytest. Automated deployment using GitHub Actions and deployed on AWS, employing technologies such as Python, Django Rest Framework, PostgreSQL, JWT.

- **Blog Application** ⌨: Developed a Django web application for blog management, implementing CRUD operations and adding a user-friendly category search feature. Utilized tools like Django, Docker, HTML, and CSS for an efficient and engaging solution.

TRAINING

- **Taweel Mentorship** ⌨: Engaged in a year-long mentorship program focused on Python and Django, where I implemented a user profile model, conducted comprehensive CRUD operations, and established testing procedures. Additionally, I gained valuable insights into software engineering and agile methodologies, enriching my overall skill set. The mentorship also provided hands-on experience with tools like Sentry, GitHub Actions, and Azure Container Registry, contributing to my proficiency in the broader software development ecosystem.

SCHOLARSHIPS

- **Advanced Cloud Developer**: Acquired expertise in cloud fundamentals using AWS, showcasing skills in hosting static websites on S3 with CloudFront and deploying a Node.js server using Elastic Beanstalk. Additionally, refactored a monolith application into microservices, each running in its Docker container, integrated with a Travis CI pipeline for Dockerhub, and deployed the images to a Kubernetes cluster.

PROGRAMMING SKILLS

Languages: Python, C++ JavaScript, SQL.
Concepts: Problem Solving, Algorithms, Data Structures, Database, OOP, Test-Driven-Development, Agile.
Technologies: Django, Django Rest, Pytest, PostgreSQL, HTML/CSS, Git, Linux, Docker, Nginx, Github Actions, AWS.

AWARDS AND COMPETITIONS

- Dell Envision The Future Graduation Projects (2022) - Top 3 in ACT INNOVATION BATTLE PROGRAM (2021)
- ECPC ranked 93 , Egyptian Collegiate Programming Contest (2020) - IEEE Zwail Hackathon ranked 3 (2019)

EXTRACURRICULAR ACTIVITY

- **CAT Reloaded:** A technical community in mansoura university which is interested in computer science's fields.
  - Member of Data Science Team: worked on real data, applying machine learning techniques for data analysis.
  - Contributed as a member of the HR team, actively involved in various HR functions.