

Ahmed Khaled Habiba

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Summary

Senior Software Developer with over five years of experience in designing and optimizing scalable backend systems using Python. Proficient in RESTful APIs, microservices, and database management (SQL & NoSQL). Adept at integrating machine learning models, deploying cloud-based solutions, and implementing secure authentication mechanisms. Strong background in Agile development, DevOps practices, and cross-functional collaboration.

Experience

Senior Software Developer, Ocucon UK (remotely) April 2023 – present

- Developed and maintained **FastAPI-based microservices**, with seamless database integration
- Integrated and fine-tuned **machine learning models** for **computer vision applications**.
- Built **reusable Python libraries and automation scripts** to improve development efficiency.
- Deployed services using **Docker, Docker Swarm**, and automated **CI/CD** pipelines with **GitHub Actions**.
- Contributed to frontend development with **React** and React Native for a mobile app.
- Implemented **authentication & authorization** using **OAuth, JWT, and RBAC** for secure access control.
- Collaborated in Agile sprints, participating in planning and code reviews.

Mid-Level Backend Developer, Ocucon UK (remotely) December 2021 – April 2023

Designed, developed, and tested new services while maintaining existing ones, including building an **authentication and authorization service** using a **TDD approach**. Applied **Domain-Driven Design (DDD)** principles to enhance system architecture and scalability. Collaborated in an **Agile environment**, ensuring efficient development cycles and continuous improvement.

Junior Backend Python Developer, Ofaly Egypt April 2020 – December 2021

Developed **RESTful APIs** using **FastAPI** and **Django** for a **chat application** and **POS system**.
Built **event-driven services** using **RabbitMQ** for efficient inter-service communication.
Integrated **unit testing** into a **CI/CD pipeline**, improving code quality and deployment.

Skills

Languages: Python, JavaScript, TypeScript, Bash

Backend: FastAPI, Django, Flask, RESTful APIs, WebSockets, Python Async

Frontend: React, HTML, CSS, Bootstrap

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy

DevOps: Docker, Docker Swarm, Nginx, API Gateway, AWS, Heroku, Linux, CI/CD (GitHub Actions)

Architecture: Microservices, Load Balancing, Domain-Driven Design, OOP & Design Patterns

Security & Testing: JWT, RBAC, OAuth 2.0, OIDC, Unit Testing, TDD

AI & ML: Fine-tuning ML models, OCR, AI Analysis

Education

Python Full Stack Developer Diploma (Feb 2020)

ITI, (Information Technology Institute Egypt)