

Ahmed Khaled Habiba

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Summary

Senior Software Engineer with 5+ years building and operating scalable, secure microservices and APIs. Deep experience with Python (FastAPI/Django), event-driven systems, and cloud deployments. Strong in authentication/authorization (OAuth2/OIDC, JWT, RBAC), CI/CD (GitHub Actions), observability (Prometheus/Grafana, Sentry), and rigorous testing (pytest, integration tests, load testing). Comfortable collaborating across product and ML teams; integrated and served computer-vision models in production.

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) Dec 2021 – April 2023

- Built and maintained services, including a dedicated **authentication/authorization service** using a TDD approach and OpenAPI contracts.
- Introduced Celery workers backed by RabbitMQ/Kafka for background jobs and event-driven workflows; added idempotency and retry policies.
- Improved database reliability with Alembic migrations, indexing, and connection pooling.
- Evolved core architecture using Domain-Driven Design to scale boundaries and interfaces.
- Enhanced test rigor with pytest, dockerized integration tests against real services, and Locust load tests.

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

- Developed RESTful APIs using FastAPI and Django for a chat application and POS system; added WebSockets for real-time features.
- Built event-driven services with RabbitMQ and scheduled cron tasks for maintenance and reporting.
- Integrated unit/integration tests into the CI/CD pipeline to improve reliability.
- Deployed containerized workloads with Docker and configured NGINX as a reverse proxy/load balancer.

Education

Python Full Stack Developer Diploma (Feb 2020)

ITI, (Information Technology Institute, Egypt)

Skills

Languages: Python, JavaScript, TypeScript, C#, Bash

Backend: FastAPI, Django, Flask, RESTful APIs, WebSockets, AsyncIO

Frontend: React, React Native, HTML, CSS, Bootstrap, Tailwind

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy, Alembic, Query optimization

Messaging/Async: RabbitMQ, Kafka, Celery, MQTT, cron jobs

Observability: Prometheus, Grafana, Sentry, Cloud logs/metrics

Cloud & DevOps: AWS(EC2, ECS, Lambda, S3), Docker, Kubernetes, Nginx, HAproxy, Terraform, Github Actions, feature flags

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

Security: OAuth2/OIDC (Auth Code + PKCE), JWT, RBAC, SSO/MFA, dependency scanning (Dependabot, Bandit, Trivy)

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

Courses

- **AWS Cloud Practitioner Essentials**
By Amazon Web Services at Coursera
- **ChatGPT Prompt Engineering for Developers**
By Deep learning at Coursera
- **Generative AI for Everyone**
By Deep learning at Coursera
- **Kubernetes Fundamentals**
By LearnKartS at Coursera
- **Artificial Intelligence Analyst**
By IBM (on-site)