Fady Mahrous

Python Developer

✉ fadyzth@hotmail.com

☎ +49 15259027585

📍 Blücherstr. 12, 50733 Köln, Nippes, Germany.

in linkedin.com/in/fady-mahrous-71573013b

⌗ github.com/fadymahrous

SKILLS

Python

Django / DRF/ FastAPI / SQLAlchemy

SQL / NoSQL

Bash/Shell Scripting

Linux Administration

Docker

Data Analysis (Pandas, ETL)

Git

AWS/Boto3/Bedrock LLMs

Documentation & Reporting Automation

lxml/Beautiful Soup

PyTorch/scikit-learn

Languages

English
IELTS Score C1

Deutsch
A2

Profile

Python Developer , bringing 10+ years of professional experience in technical roles. Skilled in building scalable, maintainable backend applications, automating workflows, and developing robust, production-ready systems that reduce complexity and manual effort. Proficient in designing backend architectures, building RESTful APIs, and integrating with SQL/NoSQL databases. Also experienced in developing end-to-end data pipelines and ETL processes, bridging the gap between software and data engineering.

WORK EXPERIENCE

Software Developer (Python/Django)
Asiacell Communications PJSC
03/2022 – 12/2024 | Sulaymaniyah, Iraq

- Designed and delivered scalable Python web services and RESTful APIs using Django and DRF, enhancing internal platform performance and code reusability. Improved backend testability and maintainability by applying hexagonal architecture.
- Developed automation solutions to streamline backend processes and reduce manual workload. Built and managed Docker images to support containerized deployment workflows.
- Engineered scalable data storage solutions with SQL and NoSQL databases for large-scale data handling. Designed data ingestion engines to aggregate and standardize data from diverse sources, improving consistency in processing.
- Built data cleaning pipelines and automated anomaly detection, enhancing data integrity and reducing manual checks by 80%.
- Collaborated closely with technical product owners and domain experts to identify pain points, gather requirements, and define solution scope. Took ownership of translating business needs into actionable technical tasks across teams, designed the end-to-end system architecture, and led the development lifecycle from planning to delivery.

Application Support Engineer
Ericsson
09/2018 – 03/2022 | Cairo, Egypt

- Diagnosed and resolved issues in Python code affecting the automated upgrade pipeline, ensuring seamless and reliable system deployments.
- Maintained 24/7 stability of Ericsson Charging platforms (SDP, AIR, CCN, OCC, NGCRS, EMM, EMA, VS, CS-NMT) by managing critical components across the application, database, and OS layers.
- Applied advanced Linux systems knowledge and database expertise to troubleshoot complex production issues, leveraging deep log and trace analysis to identify root causes and implement durable fixes.
- Played a key role in maintaining service continuity and system performance in high-availability environments.

Application Support Engineer
Huawei Technologies
01/2018 – 09/2018 | Cairo, Egypt

- Provided frontline support for Huawei's Ring Back Tone (RBT) product across North Africa, the Middle East, and South Africa.
- Specialized in troubleshooting at application, OS, and Oracle levels; ensured SLA compliance and effective customer communication.
- Achievements include conducting workshops, implementing new RBT testbeds, and improving KPIs.

IN Skill Center Engineer
Orange
04/2014 – 01/2018 | Cairo, Egypt

- Provided first-line support for Orange FT-group affiliates with Ericsson collaboration.
- Proficient in Linux admin, Oracle, CRS database, SS7 signaling, log analysis, and network protocols.
- Represented Orange-FT at annual meetings, contributing to technical advancements and best practices.

Key Achievements, Production Projects

End-to-End Data Platform Development
Built from the ground up using Python libraries and SQL/NoSQL data stores to fully replace a commercial Ericsson product. Handled the daily collection, cleanup, and loading of over 30 million call data records, resulting in a 70% improvement in performance and efficiency.

Cloud-Native Data Pipeline & Automation for Real-Time Crypto Trading
Designed and deployed end-to-end, cloud-native data pipelines to process real-time OHLC data for crypto trading. Implemented Infrastructure-as-Code and CI/CD workflows for automated, scalable cloud deployment—boosting reliability and streamlining the data lifecycle.

Mass Configuration Editor for Production Systems
Developed a powerful data manipulation tool using Pandas, LXML, and Bash scripting to edit thousands of live configuration records. This eliminated manual errors and enabled 90% faster deployments with nearly 100% accuracy across critical production systems.

EDUCATION

Bachelor in Electrical and Electronics Engineering
El Shorouk Academy
01/2009 – 01/2013