Fady Mahrous

Python Developer

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SKILLS

Python

Django / DRF/ FastAPI / SQLAlchemy

SQL / NoSQL

Bash/Shell Scripting

Linux Administration

Docker

Data Engineer (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 with over 10 years of professional experience in technical roles, specializing in Django for building scalable, maintainable backend applications and robust, production-ready systems. Adept at designing backend architectures, developing RESTful APIs, and integrating with SQL/NoSQL databases. Experienced in crafting efficient end-to-end data pipelines and ETL processes, and leveraging strong Linux system administration skills to ensure reliable deployment, automation, and smooth production operations.

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.

Sample Key Achievements

Customer Care Interface
- Engineered a 360° customer profile platform capable of processing 25M+ CDRs daily, delivering real-time, consolidated customer insights.
- Accelerated issue resolution by enabling instant access to complete customer data, eliminating backend query bottlenecks and reducing dependency on engineering teams.

Monitoring Platform
- Developed a centralized monitoring system aggregating live metrics from 150+ servers, covering traffic analysis, health checks, heartbeats, path quality, and packet inspections.
- Enabled proactive failure detection, reducing post-incident diagnostic time from hours to minutes through automated root-cause identification and a user-friendly GUI.

Dynamic Configuration Handler
- Designed and implemented a dynamic configuration management platform for charging systems and customer profile metadata updates.
- Cut configuration update cycles from months to days using dynamic templates, automated workflows, and early deployment strategies — enabling faster rollouts and operational agility.

EDUCATION

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