

# Ahmed Mansour

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## Summary

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Full Stack Python developer with cloud computing (AWS) and Linux administration experience. Seeking Cloud/DevOps opportunities globally, with a diverse perspective from living in Egypt, Azerbaijan, the Philippines, and Cameroon.

## Skills

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**DevOps:** AWS architecture & core services, Red Hat Linux, Terraform, Docker, Networking protocols & security

**Languages:** proficient in Python, HTML, CSS; familiar with C++, Bash, SQL

**Tools:** Git, Django, Pytest, Beautiful Soup, Selenium, Bootstrap

**Certifications:** currently pursuing AWS SAA-C03 and RHCSA

## Experience

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**Systems Administrator**, Egyptian Police Academy – Conscription Oct 2021 – Jan 2023

- Automated file encryption, watermarking, and employee queries for PTO and meal allowance via executed Python scripts
- Maintained 99% uptime by managing internal DNS records and administering user/group permissions for file servers
- Improved department efficiency by providing software training, resulting in higher post-assessment scores amongst staff

**Software Engineer Intern**, Opatrip Lithuania – Remote Jan 2021 – Aug 2021

- Reduced manual entry by 50% via Google Sheets API calls to automatically populate and update sales data for 200+ tours
- Increased customer conversion rates by adding multicurrency support to a Bokun backend, sending JSON batch requests to the checkout API

**Systems Analyst Intern**, TBS, Birds Cage Food Products, Givaudan – Academic Feb 2019 – Dec 2020

- Addressed workflow bottlenecks by designing prototypes & database solutions for transaction & decision-support systems
- Delivered feasible project planning and implementation through cost-benefit analysis, ERD/DFD analysis, risk assessments, Gantt scheduling, and comprehensive SRS documentation

## Projects

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### Global VPN Accelerator

*BGP, FRR, TGW, Global Network, IPsec tunnels, VPC, EC2*

- Deployed an AWS site-to-site VPN that allows remote employees access to a simulated corporate network via IPsec tunnels
- Enabled fast route exchange with AWS by implementing BGP peering on FRR-configured routers within the network
- Increased network speeds by directing user traffic to globally accelerated VPN endpoints attached to a transit gateway

### Elastic Press

*ELB, ASG, Launch Templates, RDS, EFS, SSM Parameters, IAM, VPC, EC2*

- Automated the setup of a web server environment hosting Wordpress using Apache HTTP Server, PHP, and MariaDB
- Ensured uninterrupted service and scalability by dynamically adjusting capacity based on CPU load during peak demand
- Retained persistent data storage by migrating MySQL to RDS and transferring local media to an EFS shared file system

### Mind Scribe

*Python, Django, Bootstrap, Git, YAML*

- Built a full-stack app to track learning progress, implementing Django authentication and content filtering based on user
- Achieved cross-device compatibility with Bootstrap and deployed the app on Platform.sh with custom error pages to redirect unauthorized users

## Education

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**The American University in Cairo** – B.B.A. in Information Systems June 2021

- Relevant Coursework: OOP, Data Structures and Algorithms, Languages and Compilers, Database Design, Software Engineering, Information Systems & Security, Business Analysis, Project Management