

# Ahmed Mansour

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## Summary

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Full Stack Python developer with cloud computing (AWS) and Linux administration experience. Open to global opportunities and relocation, with a diverse perspective from living in Egypt, Azerbaijan, the Philippines, and Cameroon.

## Skills

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

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

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

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

## Experience

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**Systems Administrator**, Egyptian Police Academy – Conscription

Oct 2021 – Dec 2022

- Developed local Python scripts via WSL to automate watermarking, file encryption, and employee query retrieval
- Maintained system uptime by managing DNS records and administering user/group permissions for files and directories
- Improved department efficiency by providing software training, resulting in higher post-assessment scores amongst staff

**Automation Engineer Intern**, Opatrip Lithuania – Remote

Jan 2021 – Aug 2021

- Automated product data entry for 200+ tours via the Google Sheets API, effectively reducing manual workload by 50%
- Integrated a multicurrency Bokun system on the backend using JSON and RESTful APIs, leading to a notable increase in customer conversion rates

**Systems Analyst Intern**, TBS, Birds Cage Food Products, Givaudan – Academic

Feb 2019 – Dec 2020

- Designed prototypes and relational databases for transaction and decision-support systems to tackle workflow bottlenecks
- Provided feasible project implementation and planning by leveraging cost-benefit analysis, ERD/DFD analysis, risk assessments, Gantt scheduling, and SRS documentation

## Projects

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### Global VPN Acceleration

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

- Built an AWS site-to-site VPN that allows remote users access to a simulated corporate network via IPsec tunnels
- Implemented BGP capabilities using FRR on the on-premises routers, enabling fast route exchange with AWS
- Increased network speeds by using globally accelerated VPN endpoints attached to a transit gateway

### Elastic Press

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

- Transformed a single instance WordPress server to an automatically provisioned deployment via launch templates
- Stored local media onto an EFS shared file system and migrated a MySQL database to a dedicated RDS for data longevity
- Abstracted user sessions away from individual instances by implementing ASG and ELB, scaling based on CPU load

### MindScribe

*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

## 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