Ahmed Mansour

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Summary

Tech graduate with a strong foundation in software development, cloud computing, and Linux administration. Recent focus on refining cloud development skills and implementing DevOps practices. Open to global opportunities and relocation, with a diverse perspective from living in Egypt, Azerbaijan, the Philippines, and Cameroon.

Skills

Languages

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

Technologies

AWS architecture & core services, Red Hat Linux administration, Networking protocols & security, (currently pursuing SAA-C03 and RHCSA)

Tools

Git, Terraform, Django, Pytest, Beautiful Soup, Selenium, Bootstrap

Experience

Systems Administrator   Oct 2021 – Dec 2022
Egyptian Police Academy   Conscription

- Developed local Bash and Python scripts via WSL to automate watermarking, file encryption, and employee query retrieval
- Maintained 99% uptime by resolving DNS configurations and administering user and group permissions for files and directories
- Improved department efficiency by providing software training, resulting in higher post-assessment scores amongst staff

Automation Engineer Intern   Jan 2021 – Aug 2021
Opatrip Lithuania   Remote

- Automated product modifications for 200+ tours via Google Sheets' API, cutting workload by 50% and ensuring timely updates
- 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   Feb 2019 – Dec 2020
TBS, Birds Cage Food Products, Givaudan   Academic

- Designed transaction and decision-support systems to improve workflow efficiency based on thorough DFD/ERD analysis
- Accelerated project development by several weeks using cost-benefit analysis, risk assessments, Gantt scheduling, and building relational databases with Adobe XD prototypes and SRS documentation

Projects

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

- Transformed a single instance WordPress server to an automated deployment via launch templates
- Migrated a MySQL database to a dedicated RDS and transferred WordPress content to EFS, ensuring data resilience
- Abstracted user sessions away from individual instances by implementing ASG and ELB, scaling based on CPU load

Global VPN Acceleration
CloudFormation, EC2, TGW, VPC, Global Network, IPsec tunnels, FRR, BGP

- Enabled secure remote access to a simulated strongSwan corporate network via an AWS site-to-site VPN infrastructure
- Created two VPN attachments for the TGW with globally accelerated VPN endpoints, allowing for fast network speeds
- Configured BGP to run over 4 IPsec tunnels by installing FRR on the routers, enabling dynamic route exchange

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 page

Education

B.B.A. in Information Systems   Jun 2021
The American University in Cairo

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