

Ahmed Mansour

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SUMMARY

Tech graduate with a strong foundation in software development, cloud computing, and Linux administration. Recent focus on upskilling in cloud technologies and implementing DevOps practices.

TECHNICAL SKILLS

Languages : proficient in Python, Bash, HTML, CSS; familiar with C++, SQL
Technologies : AWS architecture & core services, Red Hat Linux administration, Networking protocols & security
Tools : Git, Terraform, Django, Pytest, Beautiful Soup, Selenium, Bootstrap

EXPERIENCE

- DevOps Engineer** Oct 2021 – Dec 2022
Egyptian Police Academy
- Developed scripts to automate watermarking, file encryption, data merging, and calculations based on employee queries
 - Maintained system uptime and security by resolving network issues, system crashes, and malware incidents
 - Trained a police subdivision from basic proficiency to working knowledge of hardware and software best practices
- Automation Engineer** Jan 2021 – Aug 2021
Opatrip Lithuania
- Automated product revisions for 200+ tours via Google Sheets API, ensuring prompt updates on product details
 - Significantly boosted customer conversion rates by integrating a multi-currency booking system on the frontend
- Solutions Architect** Feb 2019 – Dec 2020
TBS, Birds Cage Food Products, Givaudan
- Completed various academic projects that offered solutions to workflow challenges faced by local businesses
 - Analyzed feasibility, designed relational databases, and developed high-fidelity prototypes with SRS documentation

PROJECTS

- Elastic Blog Engine**
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 the 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
- Highly Available Site-to-Site VPN**
CloudFormation, EC2, TGW, VPC, Global Network, IPsec tunnels, FRR, BGP
- Deployed a VPN infrastructure using AWS and Linux-based StrongSwan servers as an on-premises environment
 - 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
- Knowledge Journal**
Python, Django, Bootstrap, Git, YAML
- Built a full-stack app using the Django framework, enabling users to track their learning progress on different topics
 - Implemented robust user authentication and registration protocols that filters content based on the current user
 - Achieved cross-device compatibility with Bootstrap and deployed the app on Platform.sh with custom error pages

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