

Ahmed Mansour

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SUMMARY

Tech graduate coming off a year of conscription, recently upskilling in cloud technologies and DevOps practices for a successful transition into the field. Key strengths encompass software development, cloud computing, and Linux administration.

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

PROJECTS

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

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

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

EXPERIENCE

Systems Administrator

Oct 2021 – Dec 2022

Egyptian Police Academy

- Developed Python scripts to automate image watermarking, file encryption, merging, spreadsheet formatting, and calculations derived from multiple 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 Intern

Jan 2021 – Jul 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 Intern

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

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