

# Ahmed Mansour

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## SUMMARY

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

## TECHNICAL SKILLS

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- Languages** : proficient in Python, Bash, HTML, CSS; working knowledge of 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

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- 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/group permissions for files and directories
  - Improved department efficiency by providing software training, resulting in higher post-assessment scores among staff
- Automation Engineer Intern** Jan 2021 – Aug 2021  
*Opatrip Lithuania* *Remote*
- Automated product revisions 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
- Solutions Architect 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 creating relational databases with Adobe XD prototypes and SRS documentation

## PROJECTS (POST-GRADUATE)

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- 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*
- 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
- 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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- 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