Abdelrahman Mahmoud Fathy Shahin

Email: abdelrahman.m.27.22@gmail.com | Phone: (+20) 01228329164
Nationality: Egyptian | LinkedIn: www.linkedin.com/in/abdelrahman-shahin2
Credly: https://www.credly.com/users/abdelrahman-shahin2

Summary

DevOps & Cloud Engineer with hands-on experience in Linux system administration, cloud computing, and automation. Skilled in building and deploying containerized applications, designing CI/CD pipelines, and managing scalable cloud infrastructures on AWS. Strong background in Linux (RHEL, Ubuntu, CentOS), Docker, Kubernetes, and Infrastructure as Code (Terraform, Ansible). Experienced in integrating security practices within DevOps workflows and collaborating in Agile environments. Passionate about optimizing systems, enhancing reliability, and bridging the gap between development and operations.

Key Skills

- Linux & Systems: RHEL, Ubuntu, CentOS.
- Cloud Platforms: AWS (Practitioner & Architecting).
- Databases: PostgreSQL, MySQL (basic).
- Networking: CCNA-level knowledge (TCP/IP, Routing, Switching).
- Web Servers & Reverse Proxy: NGINX, Apache.
- Automation & Scripting: Bash, Python, YAML.
- CI/CD & DevOps Tools: Git, GitHub, GitLab, Jenkins, ArgoCD, SonarQube.
- Infrastructure as Code (IaC): Ansible, Terraform.
- Containerization & Orchestration: Docker, Kubernetes, OpenShift.
- Virtualization: VirtualBox, VMware.
- Other Tools: MobaXterm, PuTTY, Microsoft Office.

Education

B.Sc. in Electronics and Communications Engineering
Madinah Higher Institute of Engineering and Technology | Giza | January 2025

Work Experience

Intern
National Telecommunication Institute (NTI) | Smart Village | September 2025 – Present

- Administer Linux servers using Red Hat Enterprise Linux (RHEL): manage users & groups, control system services, configure SSH, manage storage, and apply security hardening.
- Automate system tasks and deployments with Bash scripting and Ansible.
- Build and deploy applications with Docker and orchestrate workloads using Kubernetes (CKA track) and OpenShift.
- Design and manage cloud solutions on AWS: launch and configure EC2, VPC, IAM, storage, and implement high-availability architectures.

- Apply DevOps practices: use Git & GitLab workflows, implement CI/CD pipelines with Jenkins, SonarQube, ArgoCD, and integrate security tools (Snyk, OWASP ZAP, GitLeaks).
- Develop scripts in Python for automation and apply secure coding practices (input validation, error handling).
- Monitor infrastructure and applications using Prometheus.
- Collaborate in Agile & Scrum-based projects with a security-first approach.

Projects

Smart Autonomous Vehicle | Graduation Project | December 2024 - January 2025
IoT & Cloud Engineer
- Built a self-driving prototype vehicle integrating Raspberry Pi, LiDAR, and sensors for mapping and obstacle avoidance.
- Integrated with AWS IoT Core + Lambda for real-time telemetry and remote control.
- Deployed live video streaming via AWS Kinesis Video Streams with less than 200ms latency.
- Implemented voice command chatbot enabling cloud-to-edge control for movement.
- Applied real-time data pipelines using MQTT + Socket.IO, achieving stable bi-directional communication.

E-commerce Microservices Platform | July - September 2025
DevOps Engineer
- Designed a microservices architecture with 6+ services, each containerized and orchestrated via Docker Compose.
- Attached dedicated PostgreSQL databases for each service to ensure data isolation and reliability.
- Secured inter-service communication using JWT authentication and per-service tokens.
- Increased startup reliability by adding health checks, reducing container restart failures by 40%.
- Deployed to AWS EC2 with Linux hardening, ensuring 99%+ uptime during testing.

Certifications & Courses

- AWS Academy Cloud Foundations.
- AWS Academy Cloud Architecting.
- Red Hat System Administration I (RH124).
- Red Hat System Administration II (RH134).
- AWS Cloud Training | NTI | February - May 2025.
- Linux System Administration (Red Hat) | NTI | October - November 2025.