

# Mahmoud Mohamed Said Ahmed

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## Summary

DevOps Engineer with expertise in cloud-native infrastructure (AWS, Kubernetes, Terraform) and cybersecurity. Proven track record of automating deployments, reducing downtime, and improving security posture. Creator of Exodia OS and contributor to open-source kernel modules. Skilled in building CI/CD pipelines, container orchestration, and penetration testing. Passionate about delivering scalable, secure, and automated systems.

## Military status (Completed)

## Education

Bachelor of Computers and Artificial Intelligence, Cairo University (Class of 2023)

## Projects:

### Exodia OS (Graduation Project – Excellent Grade)

- Built an **Arch-based** Linux distribution tailored for cybersecurity and penetration testing.
- Developed special editions including **Home** and **Acer Predator** with fan/RGB control.
- Adopted by cybersecurity enthusiasts with 500+ pre-installed tools.

### CI/CD Pipeline for VProfile App (GitOps, Kubernetes, Jenkins)

- Designed and deployed a multi-tier Java application with MySQL, Memcached, RabbitMQ, Tomcat, Nginx
- Implemented GitHub Actions workflows for development and production.
- Automated deployments on AWS EKS using Terraform + Helm

### Acer Predator Kernel Module & GUI (Linux PredatorSense)

- Reverse-engineered Windows PredatorSense app to build a Linux kernel module (C).
- Developed a PyQt5 GUI App for the Kernel Module
- Open-sourced project adopted by the Linux Predator community

### Ransomware

- It's a basic implementation of ransomware using Python, consisting of two programs: a server and a client
- The server is used to control the client (ransomware) and is hosted on the attacker's machine
- The client, which functions as the ransomware, connects to the server to encrypt/decrypt files

### Exodia OS Assistant (PyQt5 GUI App)

- Built modular system assistant application for Exodia OS
- Designed custom UI with non-rectangular windows, dynamic buttons, and system integration features.
- Role Manager, which allows users to install, manage, and configure a role-based environment

## Experience:

### Cisco CyberOps Associate Trainee – NTI

(1 month in Aug – Sept 2021)

- Configured and monitored SOC environments, improving incident detection and response
- Gained hands-on experience in threat intelligence, packet analysis, and SIEM workflows.

### CCNA Training - FCAI

(1 month in Aug - Sept 2020)

- Hands-on labs with routing, switching, subnetting, and LAN/WAN protocols.
- Built and troubleshooted small-scale enterprise network simulations.

### Incident Response - CyberTalents

(3 months in Jun - Aug 2021)

- Conducted digital forensics and reverse engineering exercises on malware samples
- Supported incident handling workflows, contributing to faster triage of forensic evidence.

## **Skills:**

- **Version Control & Linux:** Git, Git LFS, GitHub, GitLab, Debian/Arch/RHEL-based
- **Programming:** C/C++, Java, Python, Bash, PowerShell
- **Containers & Orchestration:** Docker, podman, OpenShift, Kubernetes
- **CI-CD & IaC:** Jenkins, GitHub Actions, GitLab CI, Terraform, Helm, Ansible, vagrant
- **Cloud:** AWS
- **Monitoring & Security:** Grafana, Incident Response, Penetration Testing

## **Certificates:**

- **CyberSecurity:** Incident Response, NTI CyberOps, PNPT
- **DevOps:** DevOps with Projects
- **Networks:** CCNA
- **Programming:** C With linux
- **API:** API and Web Service Introduction – Udemy
- **Project Management:** Complete Agile Scrum Master Certification Training – Udemy