



# OMAR FRIKHA

## DevOps Engineer & Network Administrator

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### PROFESSIONAL SUMMARY

DevOps Engineer with solid experience in network and system administration, with a strong focus on security. Former military officer known for discipline and teamwork, with technical expertise in cybersecurity, containerization, and cloud infrastructure management. Currently focused on implementing CI/CD pipelines, automating Kubernetes deployments (AWS EKS), and continuously improving system performance in production environments.

### WORK EXPERIENCE

#### DevOps Engineer Intern | Tekboot Solutions | Remote Feb 2025 - Present

- Designed and implemented CI/CD pipelines using Jenkins and ArgoCD for automated deployments.
- Managed Kubernetes clusters (EKS), optimized microservice deployments.
- Deployed and maintained AWS cloud infrastructure using Terraform.
- Set up system monitoring with Prometheus, Grafana, Loki, ELK, and Zipkin.

#### System & Network Administrator | Ministry of Defense Jun 2023 - Dec 2024

- Managed network infrastructure (switches, routers, firewalls).
- Monitored network performance and implemented solutions to reduce downtime.
- Conducted regular security audits and resolved vulnerabilities.

#### Data Engineer Intern | OliveSoft LAGID | Hybrid Jun 2024 - Aug 2024

- Designed an API template for Talend with OAuth2 and OpenAPI documentation.
- Implemented automated testing to ensure API stability.

#### Director of Maritime Operations | Ministry of Defense Aug 2022 - May 2023

- Prepared detailed activity reports, conducted maritime data analysis, and made strategic recommendations.
- Oversaw maritime operations in the southern zone of Tunisia.

#### Deck Officer | Ministry of Defense Jul 2020 - Jul 2022

- Specialized in embedded network systems, radio, and tactical communications.
- Maintained and secured sensitive data transmission systems.

### PROJECTS

#### Automatisation du CI/CD sur AWS pour l'application TalentCloud Feb 2025 - Present

Technologies: AWS (EKS, EC2, ECR), Istio, Vault, Terraform, Grafana, Prometheus, ELK, Jenkins, Argo CD

- Built a multi-environment architecture (dev, qa, prod) deployed via Terraform.
- CI/CD integration with Jenkins and ArgoCD, Docker image deployments to ECR and EKS.
- Service mesh communication with Istio.
- Centralized monitoring using Grafana, Prometheus, and ELK.
- Domain integration with SSL certification (AWS Certificate Manager, Route 53).
- Stored secrets securely using HashiCorp Vault.

#### Develop and Deploy my Portfolio website Apr 2025

Technologies: AWS, Docker, Terraform, Grafana, Prometheus, Github Action, Sonarqube, Trivy

- Integrated CI/CD with GitHub Actions to automatically deploy the website to AWS S3 and CloudFront whenever changes are pushed to the main branch.
- CI/CD setup with GitHub Actions following DevSecOps principles.
- Configured a custom domain name for the website using AWS Route 53 and SSL certification using AWS Certificate Manager.

#### Deploy a marketplace application on Azure AKS Nov 2024

Technologies : Azure (AKS), Docker, Grafana, Prometheus, GitHub Actions, Sonarqube, Trivy, Terraform

- Deployed the app on Azure Kubernetes Service (AKS) for scalability and reliability.
- Automated CI/CD with GitHub Actions: build, test, security scan (Trivy), deploy.
- Full monitoring setup via Prometheus and Grafana.

## TECHNICAL SKILLS

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- Cloud & Infra : AWS, Azure, Terraform, Docker, Kubernetes (EKS)
- CI/CD : Jenkins, GitHub Actions, Azure DevOps, ArgoCD
- Monitoring & Logs : Prometheus, Grafana, Loki, ELK, Zipkin, Kiali
- Networking : VLAN, DHCP, DNS, ACL, SSH, Routing et Switching
- Security : Vault, AWS Secrets Manager
- Systems : Linux, Windows Server
- Tools : Git, Jira, Confluence
- Languages : Python, Java, JavaScript

## EDUCATION

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<b>Master's Degree in Computer Networks and Telecommunications</b> National School of Electronics and Telecommunications of Sfax	<b>Sep 2023 – Jun 2025</b>
<b>Engineering Degree in Deck and Naval systems</b> Tunisian Naval Academy	<b>Sep 2017 – Jun 2020</b>
<b>Preparatory Technological Cycle</b> Tunisian Naval Academy	<b>Sep 2017 – Jun 2020</b>

## CERTIFICATIONS

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• Certified Kubernetes Administrator (CKA)   KodeKloud   <a href="#">LIEN</a>	<b>Jan 2025 – Mar 2025</b>
• ISTQB® Certified Tester Foundation Level   <a href="#">LIEN</a>	<b>Dec 2024 – Jan 2025</b>
• Full Stack Certification   Coding Dojo Africa Tunis   <a href="#">LIEN</a>	<b>Jun 2023 – Dec 2025</b>
• Microsoft: Azure Fundamentals AZ-900   Enet'com   <a href="#">LIEN</a>	<b>Oct 2023</b>

## LANGUAGES

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- Arabic: Native
- French: B2 Level (certified TCF)
- English: B2 Level (certified TOEIC)