

# BEN SLIMA Mahdi

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## SUMMARY

DevOps & Site Reliability Engineer (SRE) specializing in designing, scaling, and optimizing highly available, multi-cloud infrastructure (AWS, GCP, Azure, Kubernetes). Expertise in Infrastructure as Code (Terraform), comprehensive CI/CD automation, and implementing robust monitoring and observability practices for operational efficiency and cost reduction.

## WORK EXPERIENCE

### Oneex

*February 2025 - September 2025*

*DevOps Intern*

*Clermont Ferrand , France*

- Architected and automated multi-zone cloud infrastructure using Terraform, Ansible, and ArgoCD, achieving 95% faster deployments and guaranteeing 99.99% system uptime.
- Engineered and executed large-scale workload migration to Kubernetes (EKS/AKS), implementing robust data protection and failover strategies to ensure resilience during production cutover.
- Hardened network and data security through strategic deployment of Vault, Cloudflare, and Kubernetes Network Policies, ensuring compliance with ANSSI, CIS Benchmarks, and GDPR standards, thereby significantly minimizing external attack exposure.
- Implemented proactive monitoring and alerting systems (Grafana, Prometheus, Alertmanager), resulting in a 50% reduction in Mean Time to Detect (MTTD) and a 70% reduction in Mean Time to Recover (MTTR).
- Drove operational maturity by automating CI/CD pipelines and establishing rigorous GIT-based workflows, supporting cross-functional development teams.

### PerfectSoft

*June 2024 - July 2024*

*DevOps Intern*

*Sfax, Tunisia*

- Deployed Azure-based monitoring stack (Prometheus, Grafana, Loki), enabling proactive operational stability and real-time performance tracking across core services.
- Implemented Infrastructure-as-Code (IaC) using Terraform to manage internal services, alongside automated patching workflows to enhance security compliance.
- Documented standardized operational procedures and installation guides to ensure team alignment and adherence to organizational best practices.

### DataSphera

*June 2023 - August 2023*

*DevOps Intern*

*Sfax, Tunisia*

- Developed and deployed highly efficient CI/CD pipelines in GitLab CI for EKS clusters, reducing application release cycles from 5 hours to just 15 minutes.
- Integrated security scanning and compliance tools (Trivy, SonarQube) directly into the CI/CD pipeline for mandatory secure production readiness.
- Authored reusable Terraform modules to ensure scalable, idempotent, and standardized infrastructure provisioning across all development environments.

## LEADERSHIP EXPERIENCE

### Khabini (Small Business: AI Art Sales)

*2024 - 2025*

*Co-Founder & Operations Lead*

- Co-founded and launched an e-commerce business specializing in the Illusion Diffusion AI-generated art , managing all core logistics and accounting functions.

### IEEE Faculty of sciences of Sfax student branch

*2024 - 2025*

*Student Branch Chair*

- Led a 300+ member organization, successfully managing technical and professional programs aligned with organizational KPIs.
- Achieved the prestigious Exemplary Student Branch Award and secured competitive excellence, including 4 victories at the TSYP Congress technical challenges and top placements in numerous regional and national competitions.
- Drove key initiatives to improve team collaboration, knowledge sharing, and data-driven decision-making processes.

### Securinets Faculty of sciences of Sfax

*2023 - 2024*

*Technical Manager*

- Directed the technical team for cybersecurity workshops and CTF competitions, successfully elevating team skill proficiency and ensuring operational reliability for over 20 hands-on events.
- Headed the CTF authoring team and managed outreach efforts to engage external cybersecurity experts and corporate sponsors for enhanced club events.

## PERSONAL PROJECTS

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### Multi-Region Disaster Recovery Strategy for Kubernetes (Velero)

- Engineered and tested a disaster recovery (DR) strategy for a production application using Velero to automatically back up application state and persistent volumes (PVs) from a primary AWS region to a secondary Azure region.
- Automated the entire backup and restoration workflow via a scheduled CronJob within Kubernetes, ensuring compliance with a target Recovery Point Objective (RPO) of < 1 hour.
- Developed and executed runbooks for simulated failover drills, successfully validating application restoration and data integrity in the secondary region.

### Implementing Zero Trust Architecture with Service Mesh (Istio)

- Deployed a multi-service application into Kubernetes and implemented mutual TLS (mTLS) using Istio to enforce Zero Trust security between all internal services.
- Configured advanced traffic routing, canary deployments, and circuit breaking policies at the service mesh layer to ensure high availability and minimize blast radius for updates.
- Integrated the service mesh with Prometheus and Grafana to provide real-time, fine-grained observability and audit logging of service-to-service communication latency and errors.

### MLOps Pipeline Setup (Reproducibility & Efficiency)

- Developed and deployed a production-grade MLOps pipeline automating data versioning, model tracking, testing, and deployment, reducing model release time by 40% and improving experiment reproducibility.
- Achieved data and experiment versioning using DVC and MLflow; enforced quality assurance with Deepchecks.

### Vagrant-based Kubernetes cluster with Jenkins and Helm (IaC & CI/CD)

- Automated the provisioning of a multi-node Kubernetes cluster using Vagrant and VirtualBox from a single script.
- Configured Jenkins for a complete CI/CD workflow to manage application build, test, and deployment pipelines within the cluster.
- Utilized Helm to define and deploy reusable, version-controlled application charts across Kubernetes nodes.

### Deploying a SIEM and Honeypot Based on Azure Sentinel (Security & Observability)

- Deployed and configured Azure Sentinel as a cloud-native SIEM for real-time threat monitoring and log analytics.
- Provisioned an Azure SSH honeypot (port 22) to attract intrusion attempts and integrated logs with Azure Sentinel via Log Analytics for real-time threat visualization.

### Virtual Machine Security Monitoring with Wazuh (Incident Response)

- Deployed and configured Wazuh server as a SIEM/Intrusion Detection Platform to monitor and protect multiple virtual machines.
- Fine-tuned dynamic dashboards and alert rules in Wazuh to detect unauthorized access and system misconfigurations, cutting incident response time by 35%.

## CERTIFICATIONS

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- **Microsoft Certified:** Azure Fundamentals · Azure AI Fundamentals · Azure Data Fundamentals · Security, Compliance & Identity Fundamentals
- **Cisco Certifications:** Cisco Certified Network Associate (CCNA), Cisco Certified Technician (CCT)
- **Courses:** [Advanced Kubernetes / AKS Network & Infrastructure](#) · Kubernetes Fundamentals

## EDUCATION

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### Faculty of sciences , University of Sfax

National Engineering Diploma in Data Engineering

September 2020 - October 2025

### LANGUAGES

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Arabic: Native

English: C2 (Proficient) - TOEIC: 900/980 / CEFR C2

French: C1 (Professional)

German: A2 (Pre-Intermediate)

Norwegian: A1 (Basics)