

Khalil Bouazizi

Cloud Computing & DevOps Engineer

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Summary

Recent graduate and Junior Cloud & DevOps Engineer specializing in AWS and multi-cloud environments (GCP, OCI, Azure). Experienced in architecting robust CI/CD pipelines, container orchestration, and executing seamless cloud migrations. Passionate about leveraging automation and DevOps best practices to design scalable, secure, and cost-effective infrastructure.

Technical Skills

Cloud & DevOps

AWS, Azure, GCP, OCI, DigitalOcean, Cloud Migration, OpenStack, Docker, Kubernetes, Jenkins, GitLab CI/CD, Ansible, Terraform, ArgoCD, Nginx, Helm, Prometheus, Grafana, Loki, SonarQube, Trivy

Languages & Frameworks

Python, Bash, Java, JavaScript, Flask, Angular, Spring Boot, Symfony

Databases

PostgreSQL, MySQL, Oracle, Big Data (Cloudera)

Professional Experience

Cloud Migration & Infrastructure Intern (Final-Year Internship), Looyas 02/2026 – 08/2026
Tunisia

- Designed and built a **Unified Migration & Deployment Engine** automating workload migration across GCP and OCI, migrating data across **5–20 Kubernetes namespaces** and **20–50 object storage buckets** to date.
 - Orchestrating **Kubernetes workload migration** (GKE, OKE) with Velero for backup and restore strategies on **GCP and OCI**.
 - Automating **object storage synchronization** using rclone and cloud CLIs across **GCP and OCI**.
 - Implementing **rollback strategies and validation pipelines** to ensure safe and repeatable migrations.
 - Authoring infrastructure-as-code using **Terraform** for cloud-agnostic deployments on **GCP and OCI**.
- Technologies :** Terraform, GCP (GKE, GCS), OCI (OKE, Object Storage), Velero, rclone, Bash, Python

DevOps & Artificial Intelligence Intern, ESPRIT 07/2025 – 09/2025
Tunisia

- Designed and implemented a **multi-cloud infrastructure** across AWS, Azure, and DigitalOcean using **Terraform**, integrating with **GitLab CI/CD** for full **automation** and **version control**.
 - Deployed a **secure PostgreSQL RDS** database via a **Bastion Host**, ensuring **data integrity** and securely **managing Terraform states** on Amazon S3.
 - Automated Kubernetes cluster management** using **Ansible**, incorporating **auto-scaling (HPA/VPA)** and **self-healing** mechanisms.
 - Configured centralized monitoring and logging** with **Prometheus, Loki, and Promtail**, and **standardized deployments** using **Helm charts**.
 - Trained an AI model to **recommend optimal cluster** configurations per application, improving resource utilization by an **estimated 10–25%**
- Technologies :** Docker, Kubernetes, Helm, Ansible, Terraform, GitLab CI/CD, AWS (IAM, EC2, RDS, S3, VPC), Azure, DigitalOcean, Bastion Host, Prometheus, Loki, Promtail, Python, Pandas, Scikit-learn, Machine Learning.

DevOps Intern, Insomea Computer Solutions 06/2024 – 08/2024
Tunisia

- Developed** a Flask web application to automate **Excel/CSV to SQL conversion**, streamlining **data processing**.
 - Containerized** the application with **Docker** and **deployed** it on **Microsoft Azure** for **portability** and **scalability**.
 - Implemented** a complete **CI/CD pipeline** using **Jenkins**, integrating **SonarQube** for **code quality** and **Trivy** for **security analysis**.
 - Optimized CI/CD workflows**, reducing **deployment time by 30%** and improving **delivery reliability**.
- Technologies :** Flask, Docker, Microsoft Azure, Jenkins, GitHub, SonarQube, Trivy, Artificial Intelligence

Network Intern, Tunisie Telecom 07/2022 – 09/2022
Tunisia

- Monitored network performance**, ensuring **99% uptime**.
 - Configured and maintained routers and switches**, performing **connectivity troubleshooting**.
 - Optimized LAN networks** and **secured network traffic**.
- Technologies :** Cisco (routers & switches), LAN, TCP/IP, Wireshark, Firewall

Projects

Petopia, Personal Project 11/2025 – 05/2026

- Installed and configured **OpenStack** from scratch : Nova (compute), Neutron (networking), Cinder (block storage), and Keystone (identity) to stand up a **private cloud platform**.
 - Provisioned VMs** on the resulting OpenStack cloud and built a **Kubernetes cluster** with **Ansible automation**.
 - Deployed** via **GitOps** workflows with **ArgoCD** for continuous, automated delivery.
 - Built and deployed Petopia, a **pet adoption platform (Angular frontend, Spring Boot backend, JWT-based authentication)** with real-time pet listings and request management, on top of this infrastructure.
- Technologies:** OpenStack, Kubernetes, Ansible, ArgoCD, Angular, Spring Boot, JWT

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900) ☞
- AWS Certified Cloud Practitioner ☞
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate ☞
- Terraform Associate Certification: HashiCorp Certified ☞

Education

Private Higher School of Engineering and Technology (ESPRIT),
Software Engineering - Specialization in Cloud Computing

09/2021 – 07/2026
Tunisia

Languages

English: Fluent | French: Fluent | Arabic: Native