

# Ibrahim Darghouthi

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## Professional Summary

Fresh Graduate Cloud & DevOps Engineer with hands-on experience in infrastructure automation, CI/CD implementation, and secure multi-cloud deployments (AWS, GCP). Currently leading the design of a secure cloud architecture on Google Cloud Platform to support scalable AI model training and inference workloads within a French startup environment. Strong expertise in Infrastructure as Code, DevSecOps practices, containerization, and distributed systems.

## Education

### Higher School of Communication of Tunis (SUP'COM)

Master of Engineering Diploma in Telecommunications

Coursework: Cloud Computing/DevOps, Computer Networks, Distributed Systems, Data, AI

Tunis, Tunisia

Sept 2023 – Sept 2026

### Faculty of Sciences of Monastir

Preparatory Classes for Engineering Schools (Maths/Physics)

Ranked **69th nationally** in the competitive entrance exam for engineering schools.

Monastir, Tunisia

Sept 2021 – June 2023

## Experience

### PCP

Cloud & DevOps Engineer – End-of-Studies Internship (PFE) - Master Thesis

Toulouse, France (Remote)

Feb 2026 – June 2026

- **Cloud Architecture Design:** Designed and deployed a secure infrastructure on Google Cloud Platform (GCP) to support Generative AI model training and inference workloads on VertexAI.
- **Network & Security:** Implemented VPC segmentation, IAM policies, service accounts, and environment isolation to ensure secure multi-environment architecture.
- **Infrastructure as Code:** Automated infrastructure provisioning using Terraform modules integrated into CI/CD pipelines.
- **Shift Left DevSecOps Integration:** Integrated vulnerability scanning, secret management, and compliance validation within deployment workflows.

### PCP

Cloud & DevOps Engineer (Part-Time)

Toulouse, France (Remote)

Oct 2025 – Jan 2026

- **Terraform Automation:** Developed reusable “Building Blocks” modules to standardize AWS infrastructure provisioning.
- **CI/CD Implementation:** Designed GitLab CI pipelines for Code quality checks, Infrastructure as Code validation, security checks (Lint, Trivy, Checkov), and automated deployments.
- **FinOps Cloud Best Practices:** Contributed in estimating and optimizing cloud migrations costs with AWS calculator.

### Sofrecom (Orange Group)

Software Data Engineer Intern

Tunis, Tunisia

July 2025 – Sept 2025

- **AI Automation:** Developed a Python-based automation tool leveraging LLMs to generate technical API documentation from Swagger files, reducing manual effort by 70%.
- **Kubernetes Deployment:** Built CI/CD pipelines to deploy containerized applications to an OpenShift cluster.
- **Enterprise Integration:** Integrated the solution within enterprise environments ensuring reliability across development and production.

### Addinn Group

Full Stack Developer Intern

Tozeur, Tunisia

July 2024 – Aug 2024

- Developed a Product Management Dashboard using ASP.NET Core (Clean Architecture) and Angular 17.
- Integrated external APIs and implemented real-time data visualization features.

## Technical Projects

### End-to-End CI/CD Pipeline for Spring Boot Application

April 2025 - May 2025

Java, Spring Boot, Docker, Jenkins, Nexus, SonarQube, Prometheus, Grafana

- \* Designed and implemented a production-ready CI/CD pipeline covering build, unit testing, static code analysis, artifact management, containerization, and deployment stages.
- \* Integrated SonarQube for continuous code quality inspection and Nexus as an artifact repository for versioned builds.
- \* Containerized the application using Docker and automated deployment to a Linux environment.

- \* Implemented monitoring and observability stack using Prometheus and Grafana to track application performance metrics.

### **ReportGen – AI-Powered Technical Report Generator**

*Jan 2025 - April 2025*

*Python, FastAPI, Angular, LLMs, RAG, ChromaDB*

- \* Engineered a full-stack web application that automatically generates structured technical documentation using Large Language Models (LLMs).
- \* Implemented a Retrieval-Augmented Generation (RAG) pipeline with vector database integration (ChromaDB) to enhance contextual accuracy.
- \* Developed a RESTful backend using FastAPI and built a dynamic frontend interface with Angular.
- \* Designed a modular and extensible architecture enabling scalability and future cloud deployment.

### **E-Learning Platform (LMS)**

*Nov 2024 – Dec 2024*

*Angular 17, ASP.NET Core, PostgreSQL*

- \* Designed and implemented a scalable Learning Management System following Clean Architecture principles.
- \* Implemented secure authentication using JWT and Role-Based Access Control (RBAC).
- \* Optimized database performance through indexing and query tuning using Entity Framework Core.

## **Technical Skills**

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**Cloud & Infrastructure Automation:** AWS, GCP, Azure, Terraform, Ansible , IaC , Linux , VMs

**CI/CD & DevSecOps:** GitLab CI, Github Actions, Jenkins, SonarQube, Trivy, Checkov ,Lint, Shift Left ,Vault

**Containerization & Orchestration:** Docker, ArgoCD, Kubernetes, OpenShift

**Monitoring & Observability:** Prometheus, Grafana , Cloud Monitoring , FinOps Monitoring

**Programming:** Python, Java (Spring Boot), C# (.NET), C/C++, SQL, Bash

**Web & Architecture:** Angular 17, REST APIs, Microservices Architecture , Clean Architecture , SOA

**AI/Data:** GenAI, Data engineering, LLMs, RAG, Prompt Engineering

**Databases :** PostgreSQL, MySQL, MongoDB, Redis, MSSQL , Firebase

## **Certifications**

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**DevOps Courses :** Docker, K8s, Jenkins, Linux

*Kodekloud*

**AWS Cloud Quest: Cloud Practitioner**

*Amazon Web Services*

**Introduction To linux**

*Linux Foundation*

**Multi-Cloud Networking Associate**

*Aviatrix*

**Cisco Certified Network Associate (CCNA) – Modules 1–3**

*Cisco Networking Academy*

## **Languages**

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English: Professional Proficiency

French: Professional Proficiency

Arabic: Native