

Louay KHROUF

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📍 Montpellier, France

🌐 My Website

🌐 LinkedIn

🐙 GitHub

📄 Medium



Skills

- Dynatrace , Neoload , Docker , Prometheus , Grafana , AWS , GitLab , Kubernetes , AKS , Jenkins , ArgoCD ,Ansible , Terraform , SonarQube , Azure , GCP
- Dynatrace Carbon module , JoularJX , Intel PCM , Scaphandre , PowerJoular
- ReactJS , Laravel , NestJS , NodeJS , ExpressJS , SpringBoot , MySQL , MongoDB , Git , Junit , Maven
- Java , JEE , Python , SQL , C++ , C , JavaScript

Education

- 05/2025 – Present **PhD Student, INRIA Lille**
Lille, France
Optimizing software energy consumption through transformation
- 09/2018 – 10/2024 **Network and Telecommunications Engineering Student, National Institute of Applied Sciences Technology (INSAT)**
Tunis, Tunisia
Engineering Degree in Network and Telecommunications with a Specialization in Cloud and Virtualization

Work Experience

- 02/2025 – Present **R&D Engineer, Berger-Levrault**
Montpellier, France
 - R&D engineer and PhD Cifre with INRIA Lille in the GreenIT Field for the subject : Optimizing software energy consumption through transformation
 - Gitlab, Github, Linux, AWS ...
- 04/2024 – 09/2024 **R&D in the GreenIT Field, Berger-Levrault**
Montpellier, France
 - Instrumentation for energy consumption analysis and identifying energy hotspots
 - Comparing alternative desing solutions (e.g., RPC vs Rest, Mono vs Microservices)
 - Perfomance load testing for energy measurment and Application deployment on cloud and on premise
 - PowerJoular , Intel PCM , Neoload , Dynatrace , Java , SpringBoot , Docker , AWS , Gitlab , Scrum
- 07/2023 – 09/2023 **FullStack , Devops Engineer, TmKiiN Dev Informatique**
Gabes, Tunisia
 - Development of a payment system and the Design of a CI/CD pipeline
 - Laravel , Docker , Scrum , Jenkins , Github , AKS (Azure Kubernetes Service) , K8S , MySQL
- 07/2022 – 08/2022 **Web Developer, TmKiiN Dev Informatique**
Gabes, Tunisia
 - Develop a full web application for managing car and health insurance.
 - Laravel , MySQL , Scrum

Projects

- 01/2025 **Dynatrace Deployment**
Gitlab CI/CD to automate the provision of an EKS cluster and the deployment of dynatrace and automate the fetching of metrics into a csv file (EKS, Gitlab CI, AWS, Terraform)
- 05/2024 **Automation of the Deployment of a Web App on an EC2 instance**
Create a GitLab Pipeline to provision an EC2 instance with Terraform, configure it, and deploy a web app using Ansible. (AWS , Gitlab , Terraform , Docker , Ansible)
- 02/2023 – 06/2023 **CloudiVops**
Develop a platform for creating, managing, and monitoring virtual machines on Azure.(ReactJS , MongoDB, Ansible , Terraform , Jenkins , ExpressJS , Azure , Azure Monitoring)
- 07/2023 – 08/2023 **FilesRepo**
A MERN app to create and manage Azure storage via pipelines. (ReactJS , MongoDB, ExpressJS , Kubernetes , Azure , AKS, Terraform , Jenkins)
- 10/2023 **K8S Multi-Cluster Monitoring**
Provision clusters, install Prometheus, deploy Grafana, and monitor with Jenkins. (Terraform , Azure , AKS, Jenkins , Prometheus , Grafana)
- 11/2023 **Automation of Monitoring installation tools**
Jenkins pipeline to provision Azure VM and install Grafana, Prometheus. (Jenkins , Ansible , Terraform , Azure, Prometheus , Grafana)
- 04/2023 **Todo - APP**
An app to manage tasks with an automated VM deployment pipeline.(Laravel, Azure, Jenkins, Ansible, Terraform)
- 01/2023 **Testiny**
Platform for managing technical tests within a company, equipped with a fraud detection system. (ReactJs , NestJS , Python , Docker)

Certificates

- GCP Associate Cloud Engineer

Languages

• French

• English

• Arabe