

Louay KHROUF

✉ louaykharouf@gmail.com ☎ +33 6 35 02 70 13 📍 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 measrument 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 Developper, 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