



Wassim BAKLOUTI - Junior Software & DevOps Engineer

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Profile

Junior Software & DevOps Engineer with experience in full-stack development, DevOps, cloud-native infrastructure and CI/CD automation. Worked on enterprise and governmental projects involving Spring Boot, Angular, Kubernetes and production infrastructure management. Passionate about scalable systems, platform engineering and continuous learning.

Professional Experience

Junior Software & DevOps Engineer, (*Xtensus*)

04/2026 - Present

Project : Ministry of Finance of Madagascar – Reform Plan Management Platform

- Contributed to a governmental reform management platform covering reform plans, workflows and administrative processes.
- Developed full-stack features using **Spring Boot** and **Angular** within a **microservices architecture**.
- Integrated **Keycloak** with **LDAP** for centralized identity, authentication and access management.
- Built and maintained **Jenkins CI/CD pipelines** and deployed containerized services using **Docker** and **Kubernetes**.
- Managed production infrastructure, monitoring and resilience using **Prometheus**, **Grafana** and **Grafana Alloy**.

Project : Ministry of Environment of Tunisia – Employee Intranet Platform

- Served as **Lead Spring Boot & Angular Developer** for a ministry-wide intranet.
- Coordinated the technical integration of three application stacks: **Spring Boot/Angular**, **TYPO3** and **Symfony**.
- Designed and implemented centralized authentication using **Keycloak** and **LDAP** across all three platforms, establishing **Single Sign-On (SSO)** and a seamless cross-application user experience.
- Led the **production deployment** of the platform and managed CI/CD automation using **Jenkins**.
- Implemented production observability and monitoring using **Prometheus**, **Grafana** and **Grafana Alloy**.

DevOps & Infrastructure Engineering Intern, (*Numeryx*)

01/2025 - 07/2025

Project: Design and Implementation of a Highly Available Kubernetes-Based DevOps Toolchain

- Designed and deployed an 8-node **hybrid Kubernetes cluster** combining on-premise nodes and a cloud-bursting worker node.
- Implemented a complete DevOps toolchain with **Jenkins**, **SonarQube**, **Nexus**, **ArgoCD**, **Prometheus**, **Grafana** and **Loki**.
- Automated **CI/CD** and **GitOps** workflows to improve deployment reliability, code quality control and application delivery.
- Integrated **Keycloak** and **OAuth2 Proxy** for centralized authentication, SSO and role-based access control.
- Built high-availability storage and load balancing components using **DRBD**, **Pacemaker**, **Corosync**, **NFS** and **HAProxy**.
- Secured hybrid connectivity and service exposure using **WireGuard VPN**, **Cloudflare Tunnel** and **dnsmasq**.
- Implemented offsite backups and validated infrastructure resilience using **LitmusChaos**.

Freelance Projects

Freelance Software & DevOps Engineer (*Nestaura*)

09/2025 - 03/2026

Project: Modular E-Commerce Platform

- Designed a modular e-commerce platform using **Spring Boot microservices** and an **Angular frontend**.
- Improved scalability with **Redis**, **MinIO** and **Kafka** for caching, object storage and event-driven communication.
- Added French/English multilingual support with **LibreTranslate** for automated user generated content translation.
- Containerized services with **Docker**, prepared **Kubernetes** deployments and implemented **CI/CD** and **Grafana** monitoring.

Education

Engineering Degree in Computer Science *Private Higher School of Engineering and Technology*

2020-2025

Relevant Courses: Software engineering, Algorithms and Complexity, Object-oriented programming, DevOps, Service-Oriented Architectures, Network Services and Administration, Machine Learning, Deep Learning.

Skills

- **DevOps & Infrastructure:** Docker, Kubernetes, Helm, Ansible, Jenkins, SonarQube, Nexus, ArgoCD, Grafana, Prometheus, Loki, Grafana Alloy, HAProxy, WireGuard VPN, DRBD, Pacemaker, Corosync, Cloudflare Tunnel, Keycloak, LDAP, LitmusChaos, dnsmasq.
- **Databases & Storage:** PostgreSQL, MySQL, MongoDB, Redis, MinIO, Alfresco.
- **Backend Development:** Java, Spring Boot, Spring Security, Microservices Architecture, REST APIs, Kafka, PHP (Symfony).
- **Frontend Development:** Angular, React, TypeScript, HTML, CSS.
- **Cloud & Platforms:** Kubernetes, Cloud Computing, Azure, Hybrid Infrastructure.
- **OS:** Windows, linux(Ubuntu).

Languages

• **English** [B2]

• **French** [B2]