Mehenna Missoum

Senior DevOps / SRE Engineer

Platform delivery, GitOps, and application reliability. Backend engineering experience applied to repeatable deployments, observability, and infrastructure automation.

https://mehenna-missoum.com/resume/

Professional experience

Société Générale

SRE, DevOps & Delivery Engineer | Since Apr 2024

Kubernetes delivery, GitOps, observability, and secrets management within an SRE team supporting structured-finance applications across Europe, the Americas, and Asia.

- Replaced bespoke manifest generation for backend and batch workloads with standard Helm charts that fit the team's Argo CD workflow.
- Automated weekly build and deployment cycles and contributed to the move from Jenkins shared libraries to GitHub Actions.
- Tuned application resource configurations, centralized logs, and migrated managed Elasticsearch infrastructure with scripted validation.
- Migrated Vault secrets and implemented secret rotation and certificate renewal through init containers.

Kubernetes · Helm · Argo CD

From custom manifests to Helm charts
Problem: An in-house Python manifest generator duplicated Helm capabilities, with complex maintenance and a bespoke tool for engineers to learn.

Contribution: Designed and implemented Helm charts for backend services and batch workloads as my main contribution to the migration.

Outcome: Deployment changes now use standard charts. Engineers can apply their existing Helm knowledge, and the charts fit the team's Argo CD workflow.

Full experience online

Crédit Agricole

DevOps & Delivery Engineer | Mar 2022 – Apr 2024

Designed automated Azure DevOps pipelines for a new AWS-hosted data platform, connecting Java and .NET builds with Kubernetes delivery.

- Designed fully automated Azure pipelines to deploy the platform onto AWS infrastructure.
- Implemented continuous integration for Java and .NET microservices.
- Created delivery workflows that update Kustomize manifests and configure Argo CD deployments.

Azure DevOps · AWS · Argo CD

Full experience online

ING

Backend Developer & Ops | Nov 2018 – Mar 2022

Combined backend development with CI/CD, service monitoring, and shared platform operations for event-driven financial services.

- Implemented and maintained GitLab pipelines covering builds, tests, code-quality analysis, and deployment across environments.
- Improved delivery workflows, secure deployment strategies, and pipeline secrets handling.
- Developed payment recovery mechanisms and asynchronous event processing alongside service monitoring.

GitLab CI/CD · Kubernetes · Prometheus

Full experience online

Société Générale

Backend Developer | Apr 2016 – Oct 2018

Combined document-service development with application-operations coordination and technical support for consuming projects.

- Coordinated application operations while working as a developer and designer.
- Supported projects integrating document-generation services.

WebLogic · AppDynamics · Shell

Full experience online

PSA

Backend Developer | Mar 2014 – Apr 2016

Supported application evolution and oversaw an AIX-to-SUSE Linux migration with DB2 and WebSphere upgrades.

- Oversaw migration of the technical environment and database and application-server upgrades.
- Provided application support and tracked evolutions of the after-sales system.

SUSE Linux · DB2 · WebSphere

Full experience online

Veolia Eau

Backend Developer | Dec 2012 – Mar 2014

Backend foundations in reference-data evolution, agency workflows, and data-transfer implementation.

- Coordinated evolutions of the municipal reference-data project.
- Implemented data-transfer functionality alongside agency workflow changes.

Java 7 · Tomcat · SQL

Full experience online

Prosodie

Backend Developer | Apr 2012 – Nov 2012

Application-support and backend-development foundations in payment-card services and routing projects.

- Combined support, analysis, and development for financial-service applications.
- Supported routing and automated user updates for La Banque Postale.

Java · Tomcat 7 · SQL

Full experience online

Cofiroute (Vinci)

Backend Developer | Jan 2010 – Mar 2012

Backend foundations in existing-system evolution and business operational-event reporting for motorway applications.

- Implemented upgrades and evolutions for the MAGIC information system.
- Developed PL/SQL scripts extracting and aggregating operational events for business support.

WebLogic 10.3/11 · Oracle 10/11g · PL/SQL

Full experience online

Dassault Systèmes

Backend Developer | May 2009 – Oct 2009

Early hands-on experience combining application development with deployment of an e-learning portal.

- Developed and deployed an LMS training portal.

Java · AIX · Solaris

Full experience online

Expertise

Platform delivery
Standardized deployment configuration and automated delivery workflows.

Kubernetes · Helm · Argo CD · GitHub Actions

Reliability & operations
Resource tuning, application observability, and secrets maintenance.

Prometheus · Grafana · OpenTelemetry · Vault

Backend foundations
Understanding the services, business flows, and recovery mechanisms being operated.

Java · Spring Boot · Kafka

Education

2008 | Master's degree
Databases and Distributed Information Systems
Université de Versailles Saint-Quentin-en-Yvelines

2007 | Engineering degree
Computer Science
ESI, Algiers, Algeria

Certifications

2021 | Certified Kubernetes Application Developer (CKAD)

2026 | Certified Kubernetes Administrator (CKA)