

# KHORSI Mustapha Abdelaziz

## Software engineer

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### Professional Summary

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DevOps engineer with solid software engineering background. Over 2 years of experience building and deploying data intensive applications across government and enterprise projects ensuring high availability and observability, seeking growth environment.

### Education

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**Ecole nationale Supérieure d'Informatique ESI**, Master's in Computer Science Sept 2017 – Sept 2022  
• **Main Coursework:** Algorithmics, Computer Architecture, Mathematics, Networks, Software architecture,

### Experience

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**Devops Engineer**, Entreprise d'Appui au Développement du Numérique (EADN) – Aug 2024 – Present  
Algiers, Algeria

- Administred high-availability Docker Swarm cluster with 3 manager nodes, managing multiple application stacks across development, test and production environments.
- Enhanced security of an existing CI/CD pipeline based on Jenkins.
- Organized presentations for new enhancements to the existing DevOps culture.
- **Technologies:** Jenkins (CI/CD), Git, Docker, Docker Swarm, Linux, Maven.

**Backend Engineer**, Entreprise d'Appui au Développement du Numérique (EADN) – Sep 2023 – Aug 2024  
Algiers, Algeria

- Designed and developed Restful APIs for government investment platform meeting business requirements.
- Conducted code reviews and introduced new code patterns to the existing code-base.
- Contributed to the shift and migration from legacy technologies.
- **Technologies:** Java 17, Spring Boot, Spring Data JPA, PostgreSQL, Git

**Software engineer**, B-LINK SOLUTION – Algiers, Algeria Mar 2023 – Sep 2023

- Developed and maintained features for "Assurance ERP" serving over 100 insurance agencies across Algeria.
- Delivered core MVP functionalities on schedule, securing contract agreement with major bank client.
- Automated ATM log analysis by implementing regex pattern matching for non-standardized logs, reducing manual processing time from hours to minutes.
- Identified and proposed database partitioning as scalable solutions for growing ATM transaction volumes.
- **Technologies:** Java EE 7, JPA (Eclipse Link), PrimeFaces JSF, iReport, and Payara Server.

**Developer Intern**, DOMUS Laboratory - University of Sherbrooke – Quebec, Canada Sep 2021 – Jul 2022

- Conducted research on state-of-the-art activity recognition systems for elderly monitoring.
- Developed real-time activity recognition system using Kafka Streams, processing data from 20-30 sensors (temperature, movement, door) across 20 test homes.
- Implemented streaming aggregations for more complex activities.
- Built anomaly detection algorithms for unusual behaviors (e.g., late-night departures), reducing detection time from 24 hours using batch processing to seconds.
- **Technologies:** Kafka, Kafka Streams, Scala, Docker, MongoDB, and FastAPI.

## Technologies

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**Languages:** Java, SQL, Python, Go.

**Frameworks & libraries:** SpringBoot, Java EE, Maven, Kafka Streams.

**Technologies:** Docker, Docker Swarm, Git, Linux, Jenkins, Postgresql, Kafka, Grafana, HAProxy.