

Abderrahmane Boukhezar

Software Engineer

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Summary

Software Engineer with **2+ years** of experience developing web applications, delivering production features, and improving application performance.

Experience

Software Engineer

Entreprise Nationale de Géophysique (ENAGEO), Sonatrach Group

Jan 2026 – Present

Hassi Messaoud, Algeria

Occupational Health Management Platform

- Developed core features using Spring Boot, Angular, and Oracle; integrated Keycloak authentication and Spring Security access controls, deployed via Jenkins and tested with JUnit 5, Mockito, and MockMvc.
- Built a medical records module with server-side pagination, filtering, and caching, reduced grid load time by **74%**.
- Developed annual visit planning with quota and eligibility rules, reduced selection response time by **32%**.
- Built a KPI and recent-activity dashboard, optimized queries to reduce load time by **63%**.

Telecom Resource Management Platform

- Built SIM, phone-line, and subscription management features using Spring boot and Angular, built a searchable company directory with Excel import and PDF export.

Full-Stack Developer

Algérienne des Eaux (ADE), Head Office

Sep 2024 – Dec 2025

Algiers, Algeria

Billing & Customer Account Services

- Developed billing-history and payment-status services with Laravel, Spring Boot, MySQL, and PostgreSQL.
- Implemented and deployed backend integration changes for a PHP-based online bill-payment website.

Customer Complaints Management

- Built Angular dashboards connected to Spring Boot REST APIs to analyze customer complaints by source and category.

Software Engineering Intern (Master's Final-Year Project)

Société Algérienne de Production de l'Électricité (SPE), Sonelgaz Group

Feb 2024 – Jun 2024

Taher, Jijel, Algeria

- Developed a Laravel/Vue.js application with PostgreSQL for power-plant equipment inspections.

Skills

Programming Languages: Java, TypeScript, JavaScript, SQL, Python, PHP, C++

Backend: Spring Boot, Spring Security, Spring Data JPA, REST APIs, Keycloak, OAuth2/JWT, Laravel, FastAPI

Frontend: Angular, RxJS, DevExtreme, Vue.js, React, Tailwind CSS

Databases: Oracle, PostgreSQL, MySQL

Testing: JUnit 5, Mockito, MockMvc, Postman

Tools & DevOps: Git, GitLab CI/CD, GitHub Actions, Jenkins, Docker, Maven, Nginx, Linux, Claude Code, Codex

Spoken Languages: Arabic, English, French

Projects

Industrial Equipment Monitoring System — Master's Final-Year Project (GitHub)

- Developed equipment inspection scheduling and measurement recording workflows using Laravel, Vue.js, and PostgreSQL.
- Built dashboards to compare planned and completed inspections and visualize equipment status.
- Implemented RPM-based threshold checks to classify equipment readings and assess equipment condition.

Data Integrity & Verification Layer Prototype — Part of Ph.D. Research

- Developed a data-integrity and verification prototype for a broader **IoT/AI** wastewater-monitoring architecture using **React** and **FastAPI**.
- Implemented record integrity and finality verification; load-tested **1,200 requests**, achieving **4.12 req/s** at concurrency 8.

Education

Ph.D. in Artificial Intelligence and Software Engineering (in progress)

Feb 2025 – Present

École Nationale Supérieure des Technologies Avancées (ENSTA), Algiers

Research topic: Secure IoT-based wastewater quality monitoring and AI-assisted irrigation decision support.

Master's in Information Systems and Decision Support, University of Jijel

Oct 2022 – Jun 2024

Bachelor's in Computer Science, University of Jijel

Oct 2019 – Jul 2022

Achievements

ALCPC 2023 (Algerian Collegiate Programming Contest): 2nd of 44 teams; qualified for ACPC in Egypt (Certificate)

ACPC 2023 (Africa & Arab Collegiate Programming Championship): Honorable Mention (116 teams) (Certificate)

Key Skills: Data Structures, Algorithms, Problem Solving, Python, C++