

Abderrahmane Boukhezar

Software Engineer

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PROFILE

Software engineer with strong analytical skills and competitive programming experience, committed to designing efficient and scalable technical solutions in software development.

EDUCATION

- **Ecole Nationale Supérieure des Technologies Avancées (ENSTA)**, Dergana, Algiers, Algeria
Ph.D. in Artificial Intelligence and Software Engineering Feb. 2025 – Present
Thesis Topic: Innovative and secure wastewater quality monitoring system based on IoT using AI for irrigation
Keywords: IoT, Deep Learning, Blockchain, Edge computing, Cloud computing
- **University of Jijel**, Jijel, Algeria
Master's in Information Systems and Decision Support Oct. 2022 – June 2024
- **University of Jijel**, Jijel, Algeria
Bachelor's in Computer Science Oct. 2019 – July 2022

PROFESSIONAL EXPERIENCE

- **Algérienne des Eaux (Direction Générale)**, Oued Smar, Algiers, Algeria .
Full-Stack Developer Sep. 2024 – Dec. 2025
 - **Development and improvement of backend for version 2 of "Miyahimob" application (Laravel-Spring Boot)**
 - Designed and implemented previous bills display system with real-time updates after payment via Miyahimob app or online payment portal
 - Designed and implemented user database
 - Deployed and managed application in production environment
 - **Contribution to complaint management system development (Spring Boot - Angular)**
 - Designed and developed Angular dashboard for analyzing complaint sources (Miyahimob, CATO, email, Facebook, etc.) and types (technical, commercial)
 - Integrated REST APIs with Spring Boot
 - **Technologies:** Laravel, Spring Boot, Angular, Nginx, Tomcat, SMTP, TCP/IP, MySQL, PostgreSQL, GitLab, Swagger, Postman
- **SPE (SONELGAZ – Algerian Electricity Production Company)**, Taher, Jijel, Algeria .
Software Engineering Intern (Final Year Project) Feb. 2024 – June 2024
 - Developed web application for production system monitoring and control
 - Created dynamic dashboards and implemented role-based access control to ensure secure and interactive data visualization, enhancing decision-making
 - **Technologies:** Laravel, Vue.js, Vuex, Tailwind CSS, PostgreSQL. [View Project \(Github\)](#)

ACHIEVEMENTS

- **ACPC 2023 (African and Arab Collegiate Programming Championship):** Honorable mention among 116 teams, Egypt. [View Certificate](#)
 - **ALCPC 2023 (Algerian Collegiate Programming Contest):** 2nd place out of 44 teams, qualified for ACPC, University of Khenchela. [View Certificate](#)
 - Represented Algeria at continental level (Egypt)
 - Demonstrated expertise in complex algorithms under pressure
- Key Skills:** Python, Competitive Programming, Algorithms and Data Structures, Teamwork, Time Management, Efficient Solution Design.

PROJECTS

- **Entity-Relationship Diagram Parser:** [View Project](#)
 - Developed full compiler with lexical and syntax analyzer
 - Technologies: Java, Swing, Parsing, Compilation
- **Traveling Salesman Problem:** [View Project](#)
 - Implemented bio-inspired algorithms (ant colony optimization)
 - Technologies: Python, Genetic Algorithms, Optimization

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript / TypeScript, PHP
- **Back-end:** Spring (Core, Boot, Security, Data JPA, MVC), Laravel, REST APIs
- **Front-end:** Angular, Vue.js, TailwindCSS
- **Databases:** PostgreSQL, MySQL
- **Tools & Technologies:** Git, GitHub, GitLab, CI/CD (basics), Docker, Swagger, Postman, UML
- **Soft Skills:** Problem Solving, Communication, Time Management

LANGUAGES

Arabic, English, French