

# Seddiki Ayoub

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## Experience

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### General Electric Vernova

March 2024 – Present

#### Software Engineer

- Designed and deployed a full K3s Kubernetes cluster on RockyLinux, building a reliable development environment from the ground up.
- Led a DevOps transformation that cut deployment failures by 60% and accelerated release cycles.
  - \* Established Git Flow branching (main, develop, features), enhancing collaboration among 7+ developers.
  - \* Developed reusable CI/CD workflow templates adopted across 10+ repositories.
  - \* Integrated automated security scans, proactively eliminating critical vulnerabilities pre-release.
  - \* Implemented semantic versioning, improving release traceability and management.
  - \* Automated merge conflict resolution to reduce development bottlenecks.
  - \* Containerized legacy apps with Docker and deployed to AWS ECR for better scalability.
  - \* Built isolated CI/CD environments per tech stack to ensure consistent builds.
  - \* Accelerated pipeline execution via strategic caching, reducing build times.
- Modernized legacy SAP integration service:
  - \* Decomposed monolith into 3 clear-cut microservices following architectural analysis.
  - \* Created a shared component library, reducing code duplication.
  - \* Optimized resource-heavy operations, significantly enhancing response times.
  - \* Designed a user-friendly Angular front-end, reducing training overhead.
- Implemented centralized infrastructure monitoring with real-time alerts for critical server resources.
- Technologies: GitHub Actions, Docker, Kubernetes (K3s), Terraform, Angular, Spring Boot, AWS (ECR, ECS).

### ELR12

May 2022 – Sept 2022

#### Software Engineer

- Developed a customized web-based project management application, providing a comprehensive solution for planning, collaboration, and project tracking.
- Conducted requirements analysis, database creation, UI design, development, and unit testing.
- Containerized the application with Docker and deployed on a Kubernetes infrastructure.
- Technologies: Figma, ReactJS, Redux, Spring Boot, MongoDB, Docker, SonarQube, Git, GitHub.

### Laboratory of Intelligent Systems and Applications

April 2021 – Sept 2021

#### Web Developer

- Developed a web application for digitizing Moroccan cultural heritage, including a public website for users to explore historical sites and buildings.
- Translated a non-technical specification document into a technical requirements document.
- Designed UI prototypes based on client feedback and developed the application according to defined specifications.
- Created technical and user documentation, and deployed the application on client servers.
- Technologies: Figma, HTML5, CSS3, JavaScript, Laravel, MySQL, UML, Git, GitHub.

## Education

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### ISIMA - Higher Institute of Computer Science, Modeling, and Applications

Sept 2023 – Sept 2025

Dual Degree: Engineering in Software Engineering and Computer Systems

Clermont-Ferrand, France

### ENSIAS - National School of Computer Science and Systems Analysis

Sept 2021 – Sept 2025

State Engineering Degree in Data Science and IoT - Ranked in Top 20

Rabat, Morocco

### FST - Sidi Mohamed Ben Abdellah University

Sept 2020 – Sept 2021

Bachelor's Degree in Computer Science - Ranked 1st in Class

Fez, Morocco

### FST - Sidi Mohamed Ben Abdellah University

Sept 2018 – Sept 2020

DEUST in Mathematics, Computer Science, and Physics

Fez, Morocco

Projects

- **Zinoo: E-Commerce Platform for Local Moroccan Products**

Sept 2024 – Present

- Leading development of a full-stack e-commerce application targeting the Moroccan market, featuring partner registration, inventory management, and secure payment processing.
  - Coordinating a five-person development team with Agile methodologies, managing feature prioritization and sprint planning.
  - Technologies: Angular, Spring Boot, GraphQL, PostgreSQL, Git, GitHub
- **Housing Notification System: Automated Alerts Platform**

Sept 2024 – Jan 2025

- Engineered an automated system that scrapes housing listings from Leboncoin and CROUS, matches them against user preferences, and delivers real-time notifications via email, SMS, and Telegram.
  - Implemented distributed event processing with Apache Kafka to handle high volumes of housing listings with minimal latency.
  - Technologies: Angular, Spring Boot, MySQL, Python (BeautifulSoup, Selenium), Apache Kafka
- **DeliverEase: Crowd-Sourced Package Delivery Platform**

Jan 2024 – Mar 2024

- Developed a cross-platform mobile application that connects package senders with travelers heading to the same destination, reducing delivery costs by up to 40% while improving delivery times.
  - Implemented real-time location tracking, secure in-app messaging, and payment processing features.
  - Technologies: Figma, Flutter, Spring Boot, RESTful APIs, Jira, Git, GitHub
- **BabyMonitoring: IoT-Based Infant Monitoring System**

Feb 2023 – Jun 2023

- Engineered an integrated IoT solution using motion and temperature sensors that transmits real-time data to a mobile application, triggering immediate alerts when predefined thresholds are exceeded.
  - Implemented low-power design principles to extend battery life and ensure continuous monitoring.
  - Technologies: Android Studio (Kotlin), Flask, Arduino, Firebase Realtime Database, SonarQube, Git
- **SevenHigh: Music Streaming Platform with Recommendation Engine**

Feb 2023 – Jun 2023

- Architected and developed a music streaming application with a machine learning-based recommendation system that analyzes user listening patterns to suggest new tracks.
  - Implemented responsive UI design and optimized audio streaming for various network conditions.
  - Technologies: Figma, ReactJS, Redux, CSS3, Spring Boot, Flask, MongoDB, UML, SonarQube, Git, GitHub
- **School Mate: Educational Administration Platform**

Oct 2022 – Jan 2023

- Designed and built a comprehensive school management system that streamlines administrative tasks, tracks student performance metrics, and facilitates resource allocation.
  - Developed secure communication channels between faculty and students, enabling document sharing and collaborative learning opportunities.
  - Technologies: Angular, Spring Boot, MySQL, JWT Authentication, RESTful APIs

Technologies

<b>Languages:</b> C++, C, Java, C#, TypeScript, SQL	<b>DevOps &amp; Cloud:</b> GitHub Actions, Jenkins, ArgoCD, Docker, Kubernetes, Terraform, AWS
<b>Frameworks &amp; SDKs:</b> Spring Boot, Angular, ReactJS, Flutter, Android	<b>Infrastructure &amp; Security:</b> NGINX, Traefik, SonarQube, Aqua