

# Hamza Ait Hssayene

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(Opentorelocate)

## EXPERIENCE

### Co-founder / Software Engineer

NairiSoft

October 2023 – May 2025, Morocco

- **Co-founded and led full-stack development of AquaDentist**, a dental practice management solution, using **Express.js, Angular, and MongoDB**.
- Streamlined dental operations by leading the development and deployment of **20+ key features** within AquaDentist, including **patient scheduling, billing, and inventory management**, significantly improving client practice efficiency and reducing administrative overhead.
- **Integrated client feedback into agile development sprints**, enhancing user adoption and shaping the product roadmap.
- **Architected and built a robust, high-performance backend** for AquaDentist, **capable of seamlessly handling millions of appointment records** across thousands of potential concurrent dental clinics, ensuring uninterrupted service and data integrity for a large user base.
- **Collaborated cross-functionally with co-founders** across the entire **SDLC**, from ideation to deployment and support.
- **Championed agile methodologies (Scrum/Kanban)** to ensure **iterative development, CI/CD, and timely feature releases**.

### Freelance Software Engineer

Axum

July 2024 – August 2024, Remote

- **Led full-stack development** of a web-based internal employee evaluation platform using **ExpressJS** and **VueJS** for seamless UX.
- **Implemented robust security (authentication/RBAC)**, enabling efficient management of sensitive evaluation data and features.
- **Engineered comprehensive survey creation** supporting **400+ evaluations** with a custom and flexible scoring system.
- **Integrated automated reporting/analytics** for HR, providing **actionable insights** into performance trends.
- **Managed end-to-end deployment/maintenance**, ensuring **high availability** and sustained client satisfaction.
- **Re-engaged for follow-up contract (Jan-Feb 2025)**, demonstrating project success and client satisfaction.

### Development Engineer

Hightech Payment Systems

March 2023 – August 2024, Casablanca, Morocco

- **Developed robust backend features** using **Java Spring Framework**, expanding platform functionality, especially report generation using **Jasper**.
- **Designed/executed unit/integration tests**, achieving **90%+ code coverage** for high quality, minimal regressions, and ensuring reliability.
- **Analyzed performance and resolved critical coding issues**, significantly improving application dependability.
- **Collaborated cross-functionally** to translate business needs into **scalable solutions**, ensuring **agile project delivery**.
- **Authored/maintained technical documentation** (e.g., API specs), facilitating knowledge transfer for **5+ engineers**.
- **Utilized advanced Git** for efficient code management, collaboration, and **streamlined 5+ release cycles**.

### Scientific Consultant

Leyton

April 2022 – February 2023, Casablanca, Morocco

- **Assessed 30+ R&D projects** (software-focused) using scientific methods, drafting detailed **tax relief reports**.
- **Led technical discussions with C-suite/leads** to optimize R&D claims, preparing **robust technical documentation** maximizing relief.
- **Interviewed key decision-makers** on R&D/financials; **accurately prepared R&D tax relief calculations**.
- **Researched state-of-the-art technologies** to author **40+ technical reports** on project innovations/uncertainties for R&D tax credits.

### Software Engineering Intern

Peculium

June 2021 – August 2021, Rabat, Morocco

- **Architected and designed a new, secure backend system** for cryptocurrency deposit and withdrawal transactions, leveraging **Web3, Flask, and Docker** for robust and scalable operations capable of handling **millions** of cryptocurrency transactions.
- **Engineered critical optimizations** to the transaction process, **significantly reducing both execution time and associated gas costs** for cryptocurrency deposits and withdrawals.
- **Conducted in-depth reverse engineering of industry-leading proprietary software** to inform architectural decisions and ensure the development of state-of-the-art, optimized solutions.

## EDUCATION

### Bachelor's of Science in Computer Science

Minor in Business Administration • Al Akhawayn University in Ifrane • Ifrane, Morocco • 2021 • 3.80 GPA

- Relevant coursework: Cyber Security, Software Engineering, Artificial Intelligence, Computer Architecture, Languages and Compilers, Competitive Programming, Database Systems, Operating Systems, Analysis of Algorithms.

## SKILLS

Backend, Java, JavaScript, SQL, PostgreSQL, Liquibase, NodeJS, ExpressJS, Flask, Spring, Unity, REST, C#, C, HTML/CSS