

El Mehdi Laidoudi

🌐 elmehdilaidoudi.pages.dev | ✉ elmehdilaidoudi@gmail.com | 📍 Ifrane, Morocco | [in linkedin.com/in/el-mehdi-laidoudi/](https://www.linkedin.com/in/el-mehdi-laidoudi/)

🎓 EDUCATION

Bachelor of Science in Computer Science

Minor: Business Administration and Entrepreneurship

Al Akhawayn University

Ifrane, Morocco — Expected: May 2026

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Systems, Computer Architecture, Operating Systems, Computer Networks, Advanced Distributed Programming Paradigms, Enterprise Applications, Edge & Cloud Computing

💼 WORK EXPERIENCE

Oracle

Research Assistant

June 2025 – September 2025 | Casablanca, Morocco

- Developed **scalable solutions** for tracking third-party software dependencies across **distributed systems**.
- Optimized complex **SQL queries** and **algorithms** for Oracle Cloud Infrastructure, improving query performance by **40%**.
- Implemented **automated testing pipelines** and wrote comprehensive technical documentation for internal systems.
- Collaborated with **10+ engineers** in **agile** sprints using modern development practices.

Terra IQ

Software Engineer

Dec 2024 – May 2025 | Remote

- Architected **scalable distributed system** for real-time property monitoring, handling **100K+ events/day**.
- Built responsive UI with **JavaScript** and **React**, integrating **geospatial algorithms** for map-based analytics.
- Developed high-performance **REST APIs** with efficient **data structures** for GIS database operations.
- Implemented **caching mechanisms** using Redis, reducing API latency by **60%**.

neoCedrus

Student Software Engineering Lead | part-time

Ifrane, Morocco

Jan 2025 – present

- Led **Agile** team of **10+ developers** building **large-scale software systems** using modern CS techniques.
- Migrated legacy codebase to modern frameworks, improving system **scalability** and **performance**.
- Conducted rigorous **code reviews** ensuring best practices in **algorithms** and **system design**.
- Designed and conducted **technical interviews** focusing on data structures and problem-solving skills.

Student Software Engineer | part-time

Sep 2023 – Jan 2025

- Designed and optimized **50+ REST APIs** using **Node.js**, handling **concurrent requests** at scale.
- Built performant UI components using **TypeScript** and **React.js** with focus on **optimization**.
- Achieved **90%+ code coverage** through **500+ unit tests** following TDD methodology.
- Implemented **efficient algorithms** for data processing, reducing computation time by **35%**.

DYN IT

Software Engineer | Contract

Jun 2024 – Sep 2024 | Remote

- Engineered **distributed system architecture** for Cyber Threat Intelligence platform with **high availability**.
- Built scalable **Python** backend using **FastAPI** with **asynchronous processing** for real-time data ingestion.
- Implemented **ElasticSearch** indexing algorithms optimizing **search performance** across millions of records.

Italia Machines

Software Developer Intern

Jun 2023 – Aug 2023 | Tangier, Morocco

- Developed **mobile application** using Flutter with focus on **performance optimization** and UX.
- Integrated multiple **APIs** using efficient data structures for real-time synchronization.

🛠️ TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, TypeScript, Go, HTML/CSS

Algorithms & Data Structures: Graph algorithms, Dynamic programming, Trees, Hash tables, Sorting, Search optimization

Systems & Frameworks: Node.js, React, Express.js, FastAPI, Django, Unix/Linux, Distributed systems

Databases & Storage: PostgreSQL, MongoDB, Redis, MySQL, ElasticSearch, Prisma ORM

Cloud & DevOps: Docker, CI/CD, GitHub Actions, AWS (EC2, Lambda, S3), Oracle Cloud Infrastructure

Testing & Quality: TDD, Unit testing (Vitest, Mocha, Chai), Code review, Performance profiling

</> PROJECTS & ACHIEVEMENTS

- Oracle Cloud Infrastructure 2025 Certified Architect Professional [🔗](#)
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional [🔗](#)
- Applied for membership in Google Developer Student Clubs (GDSC) to engage in collaborative learning, community building, and hands-on technology projects