

Abdessamad Ait Elmouden

Senior Computer Science Student

Ifra, Morocco

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EXPERIENCE

• Software Engineer & Product Manager

Feb 2025 – Present

UGF-UM6P (Fund Management Unit, Mohammed VI Polytechnic University)

Rabat, Morocco

Leading the design and development of **Sustaineur**, a research-driven educational platform enabling enterprises to explore sustainability trade-offs through interactive simulations, system dynamics, and gamified learning.

Designed core system architecture covering experiment assignment logic, data modeling, and access control to support scalable, research-grade simulations across classrooms and organizations.

Tech Stack: Go, TypeScript, Docker, PostgreSQL, React, TailwindCSS

• Software Developer

Dec 2024 – Feb 2025

FACILACOM (Health Technology Company)

Morocco

Mobile Application: Developed a React Native mobile application serving 1,000+ active users for pharmaceutical data access.

Medicament.ma: Maintained and optimized a high-traffic WordPress medication search platform with 500K+ monthly users.

Pharmacie.ma: Maintained a nationwide pharmacy directory platform using Zend Framework to improve public access to healthcare information.

Tech Stack: JavaScript, React Native, WordPress, Git

• Student Software Developer

Jan 2024 – Dec 2024

neoCedrus (University Software Development Unit)

Ifra, Morocco

Collaborated within a university engineering unit to develop **xPress.aui.ma**, an anonymous course evaluation platform used for academic feedback and quality improvement.

Tech Stack: TypeScript, SQL, Git, Agile methodologies

EDUCATION

• Bachelor of Science in Computer Science (Senior Standing)

Sep 2021 – Dec 2026

Al Akhawayn University in Ifra

Ifra, Morocco

GPA: 3.85 / 4.00 | Full Merit-Based Scholarship

• Exchange Semester

Sep 2024 – Jan 2025

Roskilde University

Denmark

Studied **Computer Science and Mathematics**, with research focused on applying differential equations, simulation, and data analysis to model epidemic dynamics and study parameter sensitivity in controlled scenarios.

AWARDS

- **Moroccan Champion: VEX-U Robotics Competition** (2024, 2023) — Led end-to-end robot development including mechanical design, autonomous algorithms, sensor integration, and match strategy in international-level competition.
- **Africa's Best Project Award:** Huawei Tech4Good Competition (2023).
- **Full Merit Scholarship:** Awarded for academic excellence (2021).

ORGANIZATIONS

• Katuripu

Sep 2022 – Sep 2024

Educational YouTube Channel

Morocco

Produced educational content in Moroccan Arabic explaining mathematics and computer science concepts using Manim (Python).

LANGUAGES

- **Languages:** English, French, Arabic, Tamazight

TECHNICAL SKILLS

- **Programming Languages:** Go, TypeScript, JavaScript, Python, SQL

- **Frameworks & Tools:** React, React Native, Node.js (Express), Docker, PostgreSQL, MySQL, Git