

Abdessamad Ait Elmouden

Senior Computer Science Student
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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) Ifrane, 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 Ifrane
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