

Omar OUKHTITE

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PROFILE

I am a second-year engineering student at ENSIMAG, specializing in Mathematical Modeling, Image, and Simulation. I am passionate about problem-solving, with a keen interest in AI and data science. My analytical mindset and eagerness to learn drive me to tackle complex challenges and contribute to innovative projects. I am currently seeking internships of up to 6 months as part of my gap year, in the fields of AI and data science.

EDUCATION

ENSIMAG

Grenoble, France

Engineering Program in Computer Science and Applied Mathematics

2023 – 2026

- **Key Courses:** Statistical Learning, Applied Probability, Statistical inference, Probability Models for Learning, Data Structures, Functional Analysis, Operational Research, Combinatorial Optimization Programming.

CPGE (Preparatory Classes for Engineering Schools)

Morocco

Specialization: Mathematics and Physics (MPSI & MP)*

2021 – 2023

PROJECTS

Compiler Development for Deca Language

Dec 2024 - Jan 2025

- Developed a compiler in Java for Deca, a simplified subset of Java, with assembly code generation for an abstract machine.
- Implemented compilation phases: lexical analysis, syntax parsing, and semantic verification.
- Used Git and Maven for version control, automated testing, and ensuring code quality.

Database and Application Development for Auctions

Nov - Dec 2024

- Designed an Oracle relational database with UML modeling and implemented key SQL transactions for auction management.
- Developed a Java/JDBC demonstrator and collaborated in a team of four using GitHub for version control.

Firefighting Robot (JAVA)

Sept - Nov 2024

- Designed and developed an application in Java to simulate a team of autonomous firefighting robots in a natural environment.

JPEG Compressor

May 2024

- Developed a PPM/PGM image compressor in JPEG format using C language as part of a 3-person team.

SKILLS AND CERTIFICATES

Programming Languages and Tools: Python, Java, C, C++, R, SQL, Jupyter Notebook, Git, Linux, Scikit-Learn, TensorFlow, OpenCV.

Soft Skills: Teamwork, Communication, Critical Thinking, Time Management, Stress Management.

Languages: Arabic (native), French (bilingual), English (professional proficiency), Spanish (A2).

Certificates: Deep Learning AI, Stanford University - Supervised Machine Learning: Regression and Classification, Advanced Machine Learning (Deep Learning).

INTERESTS

Sports: Football, volleyball, Tennis.

Volunteering: Assisting students with exam preparation for CPGE and Baccalaureate exams.