



Contact



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<https://github.com/MohcineProject>

My portfolio

<https://mohcineproject.github.io/Portfolio/>

Education

Software Engineering Degree.

IMT-atlantique (ex Telecom Bretagne) |
September 2022 - August 2025

Preparatory Class MPSI/MP*

Ibn Tymiya | September 2020 - June
2022

Skill Set

Languages: Java, Python, Elixir, C++, Go,
javascript, typescript.

Front-end: Angular, Bootstrap, React.js,

Backend: Node.js, Django, express.js.

IA: Pytorch, Pandas, Numpy.

Databases: MySQL, MongoDB

Devops: Kubernetes, Docker

Others: Compilation theory, Networking,
Competitive programming.

Languages

English(IELTS 7) , French(C1),
Arabic(natif), spanish(A2).

Zahdi Mohcine

Master's student in Software Engineering
and Distributed Systems, seeking an
internship starting in April or later.

Professional Experience

Full Stack Engineer Internship :

IMT Atlantique | June 3, 2024 - August 30, 2024

- **Worked on the SAVASudio project** for IMT Atlantique teachers.
- **Implemented a new, more suitable database schema.**
- **Optimized the backend API** using efficient mongoDB aggregation pipelines.
- **Developed an optimized frontend** using React and leveraging react hooks.
- **Technologies :** [React.js](#), [Node.js](#), [MongoDB](#), [Docker](#), [Git](#).

Academic Project Commissioned by a Company

Company SLB | September 1, 2023 - December 24, 2023

- **The goal :** Optimization of the size and latency of an AI model.
- **Developed a process** for size reduction and retraining to maintain accuracy.
- **Technologies :** [PyTorch](#), [neural networks](#), [pruning](#), [quantization](#), [Python](#).
- **Result:** Reduced model size from 600 KB to 100 KB with an accuracy of over 80%.

University and personal Projects

Distributed E-commerce Order Management System

Elixir Project | September 1, 2025 - December 15, 2025

- **Creation of a distributed Order Management System (OMS)**
- **Improved performance and reliability** through memory caching, MapReduce model, and API distribution using "consistent hashing."
- **Technologies :** [Elixir](#) - [Mix](#) - [Supervisors](#) - [GenServers](#).

Modeling a creature-based ecosystem

C++ Project | September 1, 2025 - December 24, 2025

- **Optimized simulation of a creature-based ecosystem** with different types.
- **Management of the complete software lifecycle**, from design to testing.
- **Technologies :** [C++](#) - [Object oriented programming](#)- [design patterns](#) - [UML](#).

Web application for quizzes

Personnal projet | May 5, 2024 - June 1, 2024

- **Developed a web application** to manage quizzes for a school club (International Students Office).
- **Technologies :** [Angular](#), [SCSS](#), [Django REST framework](#), [Django](#), [MySQL](#).

Trains Simulation with Concurrency.

Java Project | January 19, 2024 - February 4, 2024

- **Implemented a railway simulation** with trains and stations.
- **Used automata** to model the concurrent processes of the software.
- **Technologies:** [Prolog](#), [Java](#), [threads](#), [locks](#), [synchronization](#).