



## 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.

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

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

IA: Pytorch, Pandas, Numpy.

Data bases: MySQL, Postgresql, MongoDB

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 a 6-month end-of-study internship starting in April or later.

## Professional Experience

### Full Stack Engineer Internship :

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

- **Worked on the SAVASstudio 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 Projects

### Web application for quizzes

Web Development Project | 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](#).

### Development of a compiler and a virtual machine.

OCaml Project | March 1, 2024 - April 15, 2024

- **Designed a compiler** to translate the high-level language Expr into the low-level language Pfx to evaluate mathematical expressions.
- **Technologies** : [OCaml](#), [Menhir](#), [OCamllex](#).

### 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](#).

### Simulation of the Petri Network.

Java Project | September 1, 2023 - December 24, 2023

- **Developed software modeling** the mathematical concept of "Petri Net."
- **Managed the complete software lifecycle**, from design to testing.
- **Technologies**: [Java](#), [JUnit](#), [Object-Oriented Programming](#), [design patterns](#), [UML](#).