

# Ilyes Bechoual

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I am a student in Computer Engineering at ENSEIRB-MATMECA, with a focus on ML/AI and High performance computing. Currently seeking a 3 to 4 months abroad from June to September 2024.

## Education

### **Enseirb-Matmeca, Bordeaux.**

Expected graduation date: Jun. 2025

Engineering school specializing in computer science. | [Link to all courses](#)

Relevant Courses: System programming (C), Functional Programming (JS), OOP (C++ & Java),  
Algorithms and Data Structures (C & JS), Software development (JS, SQL), Network Programming (C, Go)  
Cryptology (Python), AI (computation of heuristics, automatic reasoning algorithms)  
Data Science Statistics (Python), Deep Learning & Machine Learning (Pytorch).

### **Preparatory School Jacques Decour, Paris.**

2020-2022

Completed an intensive two-year Math Sup - Math Spé program, rigorously preparing for selective entrance examinations to French engineering schools. Studied a diverse curriculum covering subjects such as Algebra, Analysis, Probability, Mechanics, Chemistry, Electromagnetism, Thermodynamics, Algorithms, and more.

## Experience

### **CACEIS BANK**

June - July 2023

#### *IT Management Control Intern*

*Excel*

- Explored company operations, assisted in budget management, and enhanced Excel proficiency. Established a practical link between my engineering major and real-world IT management, contributing to team objectives.

## Projects

### **RDBMS - Campus Carpooling Project**

Oct – Dec 2023

#### *Database Management System app.*

*JavaScript, SQL, HTML, CSS, Git, Azure*

- Developed a Database Management System for the academic "MIRC" project, a school project to implement shared rides among students on campus.
- Implemented CI/CD pipeline integration via GitHub Actions to automate deployment into Azure.

### **Fluencia: AI Language Learning Tool**

Summer 2023

#### *Interactive AI language tool with chat-based interface and open-source.*

*Python, SQL, AI API (GCP), Database*

- Created a chat-based AI language tool to facilitate language learning through conversation-based interaction, enhancing user fluency and language acquisition skills.
- Integrated AI models, chat-based interface, and database for a comprehensive language learning experience.

### **Amazons Game Implementation**

Jan – May 2023

#### *Implementation of the Amazons board game using C.*

*C, Git, GNU Scientific Library (GSL)*

- Developed a server application enabling multiple clients to play the Amazons game using dynamic loading of shared libraries and interprocess communication, implementation of a bot with an heuristic to play against other teams.

### **Optimizing Trajectories to Prevent Air Disasters**

Sep 2021 – July 2022

#### *Optimized airplane trajectories using Genetic Algorithms during preparatory school.*

*Python, Genetic Algorithms*

- Presented the project to a panel of judges, effectively communicating, findings and showcasing problem-solving abilities.

## Skills

### **Programming Languages:**

Python, C, C++, Go, Java, JavaScript, Bash.

### **Technologies & Tools:**

Git, Linux, RDBMS, Pytorch, Azure, CI/CD, NeoVim, VSCode

### **Languages:**

French: Native language, English : C1/ B2, Japanese: A1, Spanish : B1.

### **Certifications:**

[TOEIC Certification.](#)