# Computer Engineering Student Seeking an Internship

## Mathis Roubille

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## PERSONAL STATEMENT

I am a dedicated 21-year-old student currently in my second year at ISIMA School of Computer Engineering, where I am perfecting my skills and knowledge in the field. With a strong passion for computer programming, I have successfully completed various challenging projects as part of my academic curriculum. These projects, which showcase my problem-solving abilities and creativity, can be explored in detail on my portfolio. I am eager to apply my skills and enthusiasm for programming in a real-world setting, contributing meaningfully to innovative projects and pushing the boundaries of technology. My projects can be found on my portfolio.

## EDUCATION

| | |
|---|---|
| 2023 - Present | **Clermont Auvergne INP ISIMA School of Engineering** <br> `Expected Graduation`: September 2025 <br> `Relevant Courses`: Java, .NET/C#, C, C++, Simulation, Data base |
| 2020 - 2022 | **Preparatory Program - ISIMA** <br> Highly selective preparatory school for ISIMA |
| 2020 | **High School Diploma - Scientific** <br> Albert Londres High School |

## EXPERIENCE

**Student Leadership Experience:**

| | |
|---|---|
| 2020 - Present | **Class Representative** <br> Representative of my class for a total of four years, spanning two years in Prep'Isima and another two years in ISIMA |
| 2020 - 2022 | **Representative at the Governance Council** <br> Representative of the students on the ISIMA Council |

**Work Experience:**

| | |
|---|---|
| 2021 - 2023 | **Vichy Racecourse** - Track Worker <br> Seasonal work for 3 years. |
| 2023 | **Tutor for Mathematics and Computer Science Bachelor's students** <br> Mentored students in their first year of Mathematics and Computer Science Bachelor's degree. |
| 2020 - 2022 | **Private Math Tutor** <br> Provided private math tutoring for high school students. |

## SKILLS

**Programming Languages:**

| | |
|---|---|
| ★★★★★ | Python, C |
| ★★★★☆ | Java, C++, Processing, Scheme |
| ★★★★☆ | HTML, CSS, LaTeX |
| ★★★☆☆ | C#, SQL |
| ★★☆☆☆ | JavaScript |

**Languages:**

**French**: Native
**English**: Fluent
**Japanese**: Notion
**Spanish**: Notion

**Others:**

**Blender/Blockbench**: Intermediate
**Paint.net**: Intermediate
**GitHub/GitlLab**: Intermediate
**Visual Studio Code**: Advanced
**Visual Studio**: Intermediate
**IntelliJ IDEA**: Intermediate

# Some Projects

## Travelling Spaceman 2023

**Objectives:**
Collaboratively developed an interactive arcade game with AI learning capabilities, combining the Travelling Salesman Problem concept with spaceship navigation through planets, asteroid fields, and black holes.

**Tools:**
- C
- SDL2
- GitLab
- Multithreading

## Pizzle Bubble 2022

**Objectives:**
Local multi-player game inspired by Puzzle Bubble. Working within a dedicated team, we successfully created the game in a span of two months. Pizzle Bubble offered a dynamic gaming experience, accommodating 1 to 3 players and even included an AI bot for solo play. We also implemented a user-friendly menu system for adjusting game parameters and ensured the game was responsive to various screen sizes.

**Tools:**
- Python
- Paint.net
- GitLab

## Pokemon Card AR 2022

**Objectives:**
Created an augmented reality integration project using Processing (Java-based language) for Pokémon cards. This project simplifies the process of adding augmented reality features to existing Pokémon cards, eliminating the need for code alterations. New AR functionality can be effortlessly incorporated by organizing relevant data in a dedicated folder.

**Tools:**
- Processing
- Blender

## Web Site for Integration Day 2021

**Objectives:**
An engaging website for Prep'ISIMA's Integration Day, using hidden QR codes across campus to provide an innovative and fun way for new students to explore the grounds. The site featured interactive pages with puzzles and games, to introduce the campus in fun way. This project emphasizing the commitment to building a sense of community and excitement among new students during their integration into Prep'ISIMA.

**Tools:**
- HTML
- CSS
- JavaScript
- GitHub

## Interests

**Programming:** I enjoy working on personal coding projects during my free time, exploring various programming languages and technologies to enhance my skills.

**Sports:** Climbing is my primary sport, and I recently started ice skating, enjoying the challenges it brings..

**Drawing:** I find solace and creativity in drawing, experimenting with different styles and techniques to express my imagination.

**Minecraft Map Maker:** Collaborating with friends, I create intricate Minecraft maps, which are some of my biggest projects.

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