



# Azim BARHOUMI

FINAL-YEAR STUDENT · SOFTWARE DEVELOPMENT ENGINEERING

Nantes, France

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Looking for a six-month final-year internship in software development, starting April 2026.

## Education

### IMT Atlantique (Nantes campus)

Nantes & Brest, France

COMPUTER ENGINEERING STUDENT – SOFTWARE DEVELOPMENT AND SYSTEMS TRACK

2023 – Present

- Compilation, operating systems, functional programming, development tools and continuous integration.
- Collaborative software development, DevOps practices and programming best practices.

### Lycée Pierre de Fermat

Toulouse, France

PREPARATORY CLASS MPI/MP2I

2021 – 2023

- Intensive scientific training in mathematics, computer science and physics.
- Elected delegate to the board of directors.

## Skills

### Languages & Frameworks

Advanced: C/C++, Java, Python, SpringBoot  
Intermediate: OCaml, Haskell, React, Javascript, Shell/Bash  
Learning: Assembler, Rust, Scala

### Technologies & Tools

Git, Docker, CI/CD (GitHub Actions), Linux/Unix (Debian 12), Eclipse, VS Code, IntelliJ, Postman

### Methods

Agile development, unit testing/CI, code review, design best practices

### Languages

French (native), English (C1, IELTS 7.5), Spanish (A2), Japanese (beginner)

## Past Experiences

### Research Internship – Model Federation

Brest, France

IMT ATLANTIQUE COMPUTER SCIENCE LABORATORY – THALES COLLABORATION

June–August 2025

- Java development of a Capella model connector within the Openflexo software.
- Multiple contributions to the open-source Openflexo codebase.

### Academic Exchange Semester

Jakarta, Indonesia

UNIVERSITAS INDONESIA – FACULTY OF COMPUTER SCIENCE

Jan.–June 2025

- Courses taken (in English): Data Structures, Algorithm Design, Advanced Programming, Probability & Statistics – grade A in each course.
- Strengthened skills in algorithms, advanced programming, and working in an international environment.

## Projects

### Personal Project

Nantes, France

MINIMAL OPERATING SYSTEM IN C

2025

- Developed a minimal C operating system that runs a Pong game on QEMU, showcasing functional memory management, scheduling, and driver support.

### Academic Project – Exchange Program

Jakarta, Indonesia

REPAIR-MATCHING WEB APP

2025

- Built with 4 Indonesian classmates a platform linking users needing repairs with local repairers.
- Frontend in HTML/CSS/JS and backend in Java + Spring Boot, with MySQL, Docker, CI/CD, and deployment on AWS.
- Cloud-hosted for development access only. Presented to our teacher and earned grade A.

### Personal Project

Nantes, France

AQUATIC ECOSYSTEM SIMULATION IN C++

2025

- Developed a simulation of an aquatic ecosystem where virtual creatures move, interact, and evolve.
- Implemented object-oriented design and applied design patterns to ensure modularity and scalability.