



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 – LOGIN TRACK (SOFTWARE DEVELOPMENT AND SYSTEMS)

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, R, 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 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 kernel from scratch: memory management, basic scheduling, simple drivers.
- Goal: in-depth understanding of low-level architectures and OS operation.
- Future goal: port the kernel to a Raspberry Pi 3 (ARM 64-bit).

Personal Project

Nantes, France

WEB PORTFOLIO IN REACT/VITE (IN PROGRESS)

2025

- Creation of a showcase website presenting my projects and experiences.
- Use of React, Vite, and Tailwind CSS for a fast and modular application.

Personal Project

Nantes, France

COMPILER IMPLEMENTATION

2024

- Designed a compiler for my own language, first in Java and then in Scala.