



# Alexandre Malfreyt

Seeking 9+ week a computer engineering internship abroad between June and August 2026, in software development, automation or data-related projects.

 <https://alexandre.malfre.yt/>

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 /AlexZeGamer

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Curious and tech-savvy computer engineering student with strong academic results and hands-on experience in software development and automation. I enjoy exploring new technologies and improving both the codebase and the final product. I focus on writing clean, reliable code and creating tools that are user-friendly yet powerful. Always up to date with current tech trends, I like thinking ahead and building solutions that remain relevant in the future. Comfortable with Python, C/C++ and Linux, I take initiative, propose ideas, and turn them into concrete results. I am looking for opportunities in innovative teams where I can discover new fields, contribute to real projects, and grow as a versatile engineer.

## Education

**Polytech Paris-Saclay, Paris-Saclay University** 2024 - 2027

Engineering degree in Computer Engineering, Apprenticeship program  
Computer Science & Mathematics Engineering

- Advanced Programming (C++, Java, Python), Data Structures & Algorithms,
- Low-level architecture, Operating Systems, Compilation, Networks,
- Machine Learning & Data Science (Scikit-Learn, TensorFlow),
- Mathematics for Computer Science (Analysis, Probability, Statistics),
- Economics, Communication, Company Environment & Management, Contract Law, Eco-design

**IUT d'Orsay, Paris-Saclay University** 2022 - 2024

University Diploma in Technology (DUT), Computer Science  
Application Development: Design, Development, Validation

- Programming & Algorithms (C++, Java, Python), Databases (SQL), Web Development (PHP, HTML, CSS, JS), UI/UX (C#),
- Software Engineering (Agile, UML, Design Patterns, Testing),
- Operating Systems & Networks (Linux, Raspberry Pi), Hardware Architecture (x86 Assembler),
- Mathematics (statistics, graphs, coding),
- Contract Law and Digital Law (GDPR)

**Polytech Paris-Saclay, Paris-Saclay University** 2021 - 2022

Integrated Preparatory Class in Engineering School

- Computer Science (C++, Python), Introduction to Machine Learning,
- Digital Electronics, Logic Problem Solving,
- Mathematics

**LPO Gaspard Monge - Savigny-Sur-Orge** 2018 - 2021

Baccalauréat général (High School Diploma) - With Highest Honors  
Specialty in Computer and Digital Sciences and Mathematics - European English Section

## Experience

**Synchrotron SOLEIL (ISAC)** Oct 2024 - Sep 2027  
Apprentice Engineer - Computer Engineering

Software development for integrated acquisition and control systems (Tango Controls),  
Acquisition system maintenance and evolution (Flyscan), Migration from older systems to  
Flyscan & custom development for beamline needs

**Linutop** April - July 2024  
Software Developer Internship

Developed a dynamic display and kiosk application for Linux environment on embedded systems  
(Raspberry Pi)

**3D-EXPERT.FR / Wanhao France** June - July 2022  
Internship

Customer and technical support, Stock management and process automation via Google  
Sheets, Logistical assistance

## Projects

**Advent of Code** 2022-

Participation in programming challenges each year in the form of an advent calendar.

**Home Automation Installation** 2023-

Installation of a home automation system with Home Assistant.

**Personal Projects**

Various small projects available on GitHub and on my personal website.

## Skills

**Operating Systems**

Windows, Linux

**Programming Languages**

Python, SQL, JavaScript, Java, C++, C#, PHP, HTML, CSS

**Software**

Git (GitHub, GitLab), VSCode, Visual Studio, Oracle, Figma, Notion, GIMP, Autodesk Fusion 360, SolidWorks

**Tools & Frameworks**

Tango Controls (PyTango, C++ Tango), CMake

## Languages

**French** Native speaker

**English** Professional proficiency  
 TOEIC Mock Test - Score: 970/990

**Japanese** Basic

 JLPT N5 (CEFR A1) scheduled : Dec 2025

**German** Basic