



# ALEXANDRE VAN DER PLASSCHE

## Seeking a 4 to 6 month internship as software developer

Aspiring software developer with a strong foundation in computer science and hands-on experience at **42 Lausanne**, where I rank among the **top 10** students of the September 2024 cohort.

I specialize in C/C++ **systems programming, algorithms and graphics programming**, with a particular interest in **UX, creative coding, simulations and data visualization**.

Motivated, rigorous and quick to learn, I am seeking a 4 to 6 month internship in Switzerland to contribute to real-world projects while expanding my skills in modern software development.

## CONTACT

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## EDUCATION

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### Present

#### 42 LAUSANNE

- Software Engineering

### Previous

#### UNIVERSITY OF MONTREAL

- Bachelor in Economic Sciences (2013 - 2016)
- Major in Electroacoustic Studies (2017 - 2019)

## SKILLS

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### Core Languages

C, C++

### Scripting & Automations

Python, Bash

### Web

JavaScript (Node.js, Express.js)

HTML, CSS

### Tools & Environment

Git, Docker, Linux, VS Code

## LANGUAGES

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- French (native)
- English (fluent)

## PROGRAMMING PROJECTS

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### Webserv

C++, HTTP

- Custom fully functional Nginx inspired HTTP server, built from scratch with C++98, handling concurrent connections, static file serving, and CGI execution. Demonstrated advanced network programming, multi-client communication, and parsing complex HTTP requests.

### MinIRT

C, Graphic Programming, Ray Tracing

- Multithreaded ray tracing engine built from scratch to render 3D scenes. Capable of simulating complex lighting, shadows, and objects, showcasing mastery of linear algebra and rendering algorithms.

### Minishell

C, Bash

- Full custom command-line interpreter (shell) replicating core Bash features, including lexical analysis (parsing), piping, redirection, and process execution.

## BACKGROUND & INTERESTS

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### Music

- 10 years as an Electronic Music Composer and International Performer/DJ; Sound Designer for short movies.

### Restaurant industry

- 9 years of work experience in the restaurant industry (4 different restaurants), temporary management roles.

### Interests

- Geopolitical History, Independent Comics, Oenology, Tennis & Table Tennis