

# Jason Liu

MASTER STUDENT IN COMPUTER SCIENCE SOFTWARE ENGINEERING

Pannenhuisstraat 331, 2500 Lier, Belgium

📞 (+32) 471-049-111 | ✉️ liujason2003@gmail.com | 📅 December 29th, 2003 | 🎮 JasonLiu1229 | 🌐 JasonLiu-031229LJ | 📧 @liujason2003

*“Take as many steps backwards to not make a wrong step forward.”*

## Summary

I am a Master's student in Computer Science at the University of Antwerp, specializing in Software Engineering. With a strong foundation in programming, my journey began with Arduino and Raspberry Pi projects, igniting my passion for IoT and the integration of software and hardware systems. Over time, I have expanded my expertise to include DevOps, Web Development, and Machine Learning.

My early fascination with logic systems was sparked by working with Redstone in Minecraft, leading to a continuous pursuit of knowledge in the field. I am highly driven by the desire to learn and apply cutting-edge technologies, both in collaborative teams and independent projects. Skilled in problem-solving and always seeking to push the boundaries of innovation.

## Education

### University of Antwerp

*Antwerp, Belgium*

MASTER SOFTWARE ENGINEERING

*2024 - present*

- Specialization in Software engineering. Courses that focus more on making well defined and structured software.
- We learn new practices and methodologies to make sure the software is as good as possible.

### University of Antwerp

*Antwerp, Belgium*

BACHELOR COMPUTER SCIENCE

*2021 - 2024*

- Learning the essentials of computer science. The focus is more on learning basic concepts for building well defined software.
- Some skills I learned: Web Development, DevOps, Machine Learning, Databases, Algorithms and Data Structures, Project management

### kOsh Schepperstraat

*Herentals, Belgium*

ELECTRICITY AND ELECTRONICS

*2017 - 2021*

- Learning the basics of electricity and electronics. The focus is more on learning how to build and combine different components to make a working system.
- We also learn how to design and build electronic systems. This includes learning digital and analog electronics.

## Skills

<b>General</b>	Version control, Automation, Databases, Problem solving, Git, Communication, Machine learning, IoT
<b>DevOps</b>	Docker, CI/CD
<b>Back-end</b>	RESTfull API, SOAP, Datastructures, FastAPI, PyTorch
<b>Front-end</b>	React, HTML5, Astro, ShadCN
<b>Programming</b>	Node.js, Python, JAVA, LaTeX, C++, Assembly, Rust, TS/JS, Arduino
<b>Office</b>	Office 365, Google Docs, Typst
<b>Electronics</b>	Fusion360, Eagle, TinkerCAD
<b>Languages</b>	Dutch (native), English (fluent), Chinese (basics)

## Projects

### Digital twin of a city

FULL-STACK DEVELOPER

- I took the role as a full-stack developer in a team of 20 divided in 5 subteams. I helped leading the teams and making sure the project was on track. I also helped leading my own team and making sure our separate goals were met.
- Backend development with Python and fastAPI. Developing the interaction between external APIs and the internal software.
- Frontend development with React. I helped developing some frontend components and making sure the frontend was user-friendly.
- I also helped with testing the software and making sure the software was bug-free.

## ASL recognition software

### AI ENGINEER

- I took the role as an AI engineer in a team of 3. I was responsible for the development of the AI model. I was also held responsible with the role as the project owner.
- I helped during the training steps with my colleagues and made sure the model was trained correctly.
- This project was a 6 month research project for small subset of the american sign language.

## C Compiler

### COMPILER DEVELOPER

- I took the role as a compiler developer in a team of 2. I was responsible for partial development of the compiler.
- We build this compiler using Python and Antlr and we build the compiler for a subset of the C language.
- The compiler converts the C code to LLVM and Mips assembly code.

## Work Experience

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### Dematic, Kion Group

*Antwerp, Belgium*

#### SOFTWARE DEVELOPER

*Jul. 2024 - Aug. 2024*

- Miscellaneous tasks
- I helped cleaning up the git repository. I also moved branches from one repository to another.
- Made small tools to help tracking the git repository, to prevent old branches from being forgotten, this was done making use of docker and Python.
- I also helped with some minor development tasks, like making a tool for patching configurations.

### Geninc

*Antwerp, Belgium*

#### SALES AND RECRUITER

*Jul. 2023 - Sep. 2023*

- Door to Door sales
- I was responsible for selling Hello Fresh subscriptions.
- I also needed to recruit new sales people.

## Holiday Job Experience

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### A.S. Adventure

*Lier, Belgium*

#### RETAIL EMPLOYEE

*Jul. 2021 - Aug. 2022*

- I mainly worked in the travel department, where I was responsible for selling travel gear.
- I informed people about the products and helped them with their choice.
- I was also responsible for keeping the department clean and organized. I also had to make sure the products were in stock.

### Local farmer

*Herentals, Belgium*

#### SELLING STRAWBERRIES

*Jul. 2018 - Aug. 2021*

- Selling strawberries
- Informing customers about the strawberries and keeping the stand clean.

### De Wijngaard

*Herentals, Belgium*

#### KITCHEN EMPLOYEE

*Jan. 2017 - Jan. 2022*

- Taking orders of customers and serving them.
- I was also responsible for helping frying the fries and snacks.