

SIMON ARYS

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EXPERIENCE

Freelance Web Developer – Wecodx

Fall 2021 - Present

- Start-up developing websites, platforms, mobile applications, design, etc.
- Work on the development of web applications.

EDUCATION

Computer Science – UCLouvain

- **Master's degree** 2022-now
 - Major in **Security and Networking**
 - Major in **Artificial Intelligence**
- **Bachelor's degree** 2019-2022
 - **Magna cum laude**
 - Minor "Additional module in computer science"

SOFTWARE SKILLS

- **Proficient in:** C, Java, Python, JavaScript, TypeScript, Node.js, React, Angular, PostgreSQL, CouchDB, HTML, CSS
- **Worked in:** PHP, JavaScript, Symfony, Twig
- **Other:** Linux, LaTeX, Git

PROJECTS & HACKATHONS

Mobile App Hacking – All You Can Cheat 2023, Guardsquare

- Workshop about dynamic and static analysis on Android Studio and modification of compiled APKs using Ghidra.

Algorithmic Contest – KARWa 2023, Louvain-Li-Nux & CPUMons

- Reached 5th place to solve problems with the right time complexity without internet access.

Cyber Security Challenge Belgium – Nviso 2023

- In a team of 4, we made it to the last day of the finals at the Royal Military Academy. We solved CTF challenges as well as challenges from industry experts.

Advent Of Cyber – TryHackMe 2022

- One red, blue or purple cyber security challenge every day until Christmas.

Open Week – UCLouvain 2022

- Modify OpenSSH to add the ability to use the Multipath TCP protocol, both on the client and server side.

Game Jam – Louvain-Li-Nux 2021

- 24 hours to build an open-source video game in Python in teams of 4 people.

Personal Project – 2021

- Android app to manage cooking recipes written in Kotlin and using Android's Room Database.

University Projects – UCLouvain

- Micro-services e-commerce application able to elastically scale up and down to handle the load. Built using Node.js, React and CouchDB with services running as Docker containers hosted on Azure VMs.
- Machine learning prediction of binary classes from real industry data composed of many raw datasets.
- Network attacks implemented in Python for a Mininet of workstations, servers, routers, switches and firewalls.
- Optimization of a multithreaded client-server in C, doing line-by-line matrix multiplication with AVX vector instructions, loop unrolling and aligned memory allocation.
- Truncated reliable transport protocol based on UDP, using Selective Repeat and FEC packets to handle loss, corruption, duplication, delay and latency.
- And a lot more projects.

CERTIFICATIONS

CompTIA Network+ and Security+ – Course completion on Udemy

Summer 2022

JavaScript Algorithms and Data Structures – freeCodeCamp

Summer 2021

Kotlin for Java Developers – JetBrains

Winter 2021

Introduction to Git and GitHub – Google

Summer 2020

LANGUAGES

French – Native

English – Professional working proficiency