

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

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

- Mini-internet network built using FRRouting and Open vSwitch. Configured the hosts, switches and routers with OSPF, BGP and routing policies between ASes.
- 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.
- Optimization of a multithreaded client-server in C, doing line-by-line matrix multiplication with AVX vector instructions, loop unrolling and aligned memory allocation.
- Comparison of ISP latencies and throughputs in European countries from data available on Ripe Atlas and M-Lab.
- Truncated reliable transport protocol based on UDP, using Selective Repeat and FEC packets to handle loss, corruption, duplication, delay and latency
- Android app to automate the filling of the AWSR Road Book pdf needed to get the driving license in Belgium
- And many other projects listed on my website

CERTIFICATIONS

CompTIA Network+ and Security+ – Udemy

Summer 2022

- Certificates of course completion, covering troubleshooting, configuring and managing networks as well as baseline skills necessary to perform core security functions

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

German – Elementary proficiency