

# SIMON ARYS

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## EXPERIENCE

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### 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

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

## PROJECTS

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### 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, hosted on Azure.
- 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
- Customized version of Captain Sonar game implemented in declarative code and multi-agent programming
- Multithreaded C program to compute clusters and centroids from graphs stored as binary files
- Machine learning project, doing data exploration, feature selection/extraction, modelling and cross-validation
- And many other projects listed on my website

## CERTIFICATIONS

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### CompTIA Security+ – Udemy

Summer 2022

- Certificate of course completion, covering baseline skills necessary to perform core security functions

### CompTIA Network+ – Udemy

Summer 2022

- Certificate of course completion, covering troubleshooting, configuring and managing networks

### JavaScript Algorithms and Data Structures – freeCodeCamp

Summer 2021

### Kotlin for Java Developers – JetBrains

Winter 2021

### Introduction to Git and GitHub – Google

Summer 2020

## LANGUAGES

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**French** – Native

**English** – Professional working proficiency

**German** – Elementary proficiency