



# Benjamin Lopez

## Education

2019 **Master's Degree in Computer Science**, *University of Lille, France*.  
Specializing in Networking, System Administration and Security

2017 **Bachelor's Degree in Computer Science**, *University of Lille, France*.

2016 **Technology Degree in Computer Science**, *University of Lille, France*.

## Professional Experiences

2018–present **R&D Engineer**, *Worldline, Seclin, France*, Permanent contract & Apprenticeship.

- Multi canal iOS Wallet app (Ultrasound, Li-Fi, BLE, NFC, QRCode)
- Analysis, tracking and recommendations to make a Chatbot smarter
- iOS Accessibility app to help visually impaired people use payment terminals
- Public and intern presentations of demonstrations and researches
- Ephemeral iOS self-service app involving machine learning product recognition
- Exploratory work on Progressive Web Apps, In-Car experience, Beaconing/Geofencing

2020 **Master's Degree Teaching Fellow**, *University of Lille, France*.  
Cloud Administration and Deployment teaching to 4<sup>th</sup> and 5<sup>th</sup> year university students

2017 **Front-end Developer**, *OpenIO, Hem, France*, Internship.  
Configuration and monitoring dashboard for an Object Storage solution

2016 **Full-stack Developer**, *Info GT2000, Montreal, Canada*, Internship.  
Sport Tournament Management Website

## Personal Experiences & Technologies

Rust 

- Temporary file hosting solution; *HTTP API, Async, Database, Web client*
- Minecraft server implementation; *Async, reverse engineering, multi-client*
- IFTTT Maker Event client; *API, Async, Imgur*
- Advent of Code 2015 to 2021 (175 algorithm challenges)

Golang 

- Fast food promo code generation; *Web scraping, HTTP API, Pool*
- Mega.nz download command wrapper; *Unix command*
- YouTube video link extractor; *API, reverse engineering*
- Web Radio player; *HTTP, ffmpeg, m3u8/HLS, Pandora*
- HTTP to MQTT proxy

NodeJS 

- Multiplayer Web based games: Snake, Tic-Tac-Toe, Tetris
- OVH domain manager; *CLI, API*

### Server administration.

Administration, Maintenance and Deployment of Services on Dedicated Servers and VPS  
OS Knowledge: Arch Linux, Ubuntu Server, Debian; MacOS for personal use

### Open Source Projects.

Almost all of the projects described above are open sourced and hosted on GitHub. I also like to rewrite some of my main projects in new languages when I want to improve my skills in the said language.

## Hobbies & Other Information

**Traveling**, 2 years in Hong-Kong, 6 months in Indonesia, 2 months in Canada and multiple smaller periods of time, mainly in Asia.

**Games**, In-game theory-crafting and economy analysis.

**Other**, Good Food & Restaurants, Table Tennis, Prevention and civic relief.