

Cameron NOUPOUE

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EDUCATION

Haute-École de la Province de Liège (HEPL)

Liège, Belgium

Master's degree (Computer systems architecture)

Expected June 2026

Relevant Coursework: Operating Systems Architecture; IoT Systems; Advanced Networks (Switching & Routing);
Networks Security and Optimization; Machine Learning; Software Engineering; Big Data & Data Exploration

École Supérieure d'Informatique (ESI)

Brussels, Belgium

Bachelor's degree

Graduated June 2024

Major in Computer Science; Minor in Economics & Accounting

Relevant Coursework: Data Structures & Algorithms; Web & Mobile Development; Databases; Software Analysis
(UML) & Design Patterns; Operating Systems

SKILLS

Programming Skills: Java, C/C++, SQL, ...

Scripting & IoT: Python, Raspberry Pi (Arduino, MQTT/mosquito), bash

AI & Data: TensorFlow, Artificial neural networks, Big Data, Data exploration, Signal & Image processing (1D, 2D)

Tools & DevOps: Git, Docker, Kubernetes, MongoDB, Unix/Linux environment, UML and analysis, QT widget, Jetpack
Compose, Windows Admin, Odoo

Network Skills: Cisco IOS, Advanced routing (OSPF, EIGRP, BGP), Network security (SSH, stateful firewalling, AAA,
802.1x, NAC, VPNs), Network switching

Soft Skills: deep focus and deep work, reverse engineering, code inspection

Languages: French (native), English (fluent)

Interests: Football, Boxing, Swimming, Visual creativity (video editing, motion design, aesthetic storytelling)

PROJECTS

Grapes microservices - Full microservices e-commerce (DevOps, Docker, CI/CD, RabbitMQ, MongoDB) - [GitHub](#) - 2025

- Group project (9 members)
- Co-led the development of a complete e-commerce platform based on a microservices architecture with a focus on DevOps, containerization and deployment pipelines
- Built and integrated multiple services: mobile apps (e-commerce & delivery), web platform, authentication, banking (3d secure), sales, customer support chat, data mining (PCA, MCA, regression) and monitoring
- All microservices are isolated and containerized using Docker and communicate exclusively via an API gateway and RabbitMQ for security and scalability
- Designed and maintained a CI/CD pipeline (GitHub actions) with automated GitFlow, 2 mandatory code reviews per pull request, and automated deployment across multiple VMs.
- Deployed services across distributed VMs with load balancing, ensuring horizontal scalability and system resilience.

Smart Office (IoT, python, mosquitto, Arduino, ESP32, LoRa) - [GitHub](#) – 2024

- Developed a fully functional smart office prototype integrating RFID auth to unlock access to buildings
- Designed a distributed IoT system using ESP32 + LoRa to transmit sensor data (temperature, light, occupancy) to a Raspberry Pi acting as a local control hub
- The Raspberry Pi adapts desk environment settings (e.g., brightness, temperature) to user preferences and manages real-time notifications and calendar updates
- Deployed Ubuntu-based clients (employee-side and company-side), allowing centralized control of all RPi units via public/private MQTT brokers and Node-RED dashboards
- Supported multi-user access, notifications, desk booking logic, and an internal chat system using Python back-end logic

Baba is You (C++, QT, Catch2) - [GitHub](#) - 2023

- Designed and conceived a C++ implementation of the 5 first levels of the game Baba Is You
- Made two different views for the same model: console-based and GUI with QT Widget
- Wrote Catch2 tests that covered code

StibRide (Java, JavaFX, JUnit, Maven) - [GitHub](#) - 2023

- Designed and conceived a fully documented Java app to calculate a route by metro in Brussels
- Applied MVC and other design patterns; implemented the model by applying object-oriented principles
- Using API and token to receive next metros in real-time
- Wrote Junit/Mockito tests that covered near 80% of all model-related lines of code

WORK EXPERIENCE

Software Developer Intern (Odoo) (*ref: Mathilde Verlaine: evm@odoo.com*)

[2024] Grand-Rosière, Belgium

- Bugs fix and improvements
- **Open-source contributor** to Odoo's codebase ([1](#), [2](#), [3](#), [4](#))
- Improved experience of 35+ customers on the product
- Done in english

KidsCoding Festival (WeAreCoders)

[2023] Brussels, Belgium

- Introduce children to the world of programming
- Use of technologies like Raspberry Pi and Arduino
- Worked with more than 100 children