

Guillaume Nibert

NETWORK AND SECURITY ENGINEER · PHD STUDENT

Nano-INNOV Integration Centre, 91120, Palaiseau, France

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I am a young computer engineer, currently pursuing a PhD in the field of anonymity networks. This project is an opportunity to discover the world of research, the different links between industry and university laboratories, and to provide answers to a contemporary problem.

Work Experience

Snowpack, R&D team

Palaiseau, France

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2022 - Present

- Preparation of a PhD thesis in relation with the industry (CIFRE fellowship) whose objective is to evaluate and control the security and anonymity levels of the Snowpack network. The work leads to interactions with the teams of the Snowpack start-up, the Computer Science Laboratory of Paris 6 (LIP6 - Sorbonne University - CNRS) and the Laboratory for Information, Networking and Communication Sciences (LINCS).

Électricité de France (EDF), Industrial Division, Engineering Management and New Nuclear Projects

Saint-Denis, France

DATA SCIENTIST ENGINEER APPRENTICE

2018 - 2021

- Development of a Python tool for exploiting nuclear sector data designed to improve feedback.
- Project management on follow-up documents related to the HPC power plant, the French nuclear power plants and the EPR 2 project for the electrical control/command division (15 engineers).

Education

Sorbonne University (formerly Pierre and Marie Curie University – Paris 6)

Paris, France

PHD IN COMPUTER SCIENCE

(*Expected graduation date 2025)

2022 - (2025)

- Thesis topic: evaluation and control of the security and anonymity levels of an anonymisation and security network.

University of Technology of Compiègne (UTC)

Compiègne, France

DIPLÔME D'INGÉNIEUR EN GÉNIE INFORMATIQUE (MS IN COMPUTER SCIENCE AND ENGINEERING IN APPRENTICESHIP) · GPA: **4.58/5.00**

2018 - 2021

- Courses: network architecture, cloud, Internet of Things, telecommunication, VoIP, intelligent communicating sensors, operational research, combinatorial optimisation, programming language theory, logic programming, human and social sciences, economic and strategic intelligence, English.

Lycée Jean Dupuy

Tarbes, France

CLASSE PRÉPARATOIRE AUX GRANDES ÉCOLES (CPGE) · PTSI/PT

2016 - 2018

- Two-year undergraduate courses in mathematics, physics, engineering sciences, English, computer science and French philosophy and literature for entrance exams to the French Grandes Écoles.

Projects

IoT & cloud computing, University of Technology of Compiègne

Compiègne, France

FIVE-STUDENT UNIVERSITY PROJECT

2020 · 6 months

- Acquisition of temperature, humidity and luminosity of the environment via sensors using different communication protocols (Wi-Fi and 6LoW-PAN). Centralisation, storage and transfer of data via a Raspberry Pi and VMs; tools: Contiki-NG, Python, C and C++.

Experimental optimisation work, SNCF Réseau (French National Railway Company)

Paris, France

TEAM PROJECT WITH THE COLLABORATION OF SNCF RÉSEAU RESEARCH ENGINEERS

2020 · 6 months

- Search for an optimal solution minimising the energy consumption of a TGV while respecting non-negotiable constraints (respecting the train schedule, intrinsic characteristics of the train, characteristics of the tracks and physical characteristics of the environment).

Skills

Languages

French (native speaker), English (B2 - TOEIC: 810/990), German (B1), Korean (basic knowledge)

Theory

Anonymity networks, Proofs in the Dolev-Yao model (Tamarin, Scyther), Distributed algorithms, Cryptography

Operating systems

Unix-like systems (Linux, macOS), Windows (+WSL2 & WSLg), Android, iOS

Programming & tools

Python, shell, C, C++, Git, D-Bus, X/Wayland, HTML, Java, PHP, SQL, x86 assembly notions

Networking, cloud & IoT

Nginx/Apache, Docker, QEMU, nftables, Asterisk, Proxmox, OpenStack, Arduino, Raspberry Pi, Contiki-NG

Miscellaneous

New technologies

Home automation, IoT, networking and cybersecurity

Associative commitment

IT manager of a cultural association on China

News

Scientific news; political, economic and social news

Sport and leisure

Karate-do, ski, running and cinema...