

Lucien Popa

Cybersecurity Engineering Student — Fourth Year

Seeking a cybersecurity internship in Montréal — available May 10 to August 31, 2027

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linkedin.com/in/lucien-popa-8375bb2b6 | github.com/3gol1ft | luxo-digital.fr (portfolio, self-hosted)

Native French speaker, fully proficient working in English. Eligible for a Canadian work permit under International Experience Canada (*Stage coop international*), the student-internship stream.

EDUCATION

09/23 – 09/28 | ESIEE Paris / Université Gustave Eiffel

Noisy-le-Grand, Greater Paris, France — a French grande école of electrical, electronic and computer engineering, part of a public research university. Admission by competitive entrance examination.

- Fourth year of a five-year engineering degree combining a bachelor's and a master's, graduating in 2028 with the equivalent of an MSc in Engineering.
- Majoring in Cybersecurity: cryptography, network and operating system security, advanced Linux systems, Active Directory, virtualized and hardware systems security, ISO standards, identity & access management.

September–December 2025 | Heriot-Watt University

Edinburgh, Scotland, United Kingdom — a British university specializing in engineering, science and business.

- One-semester exchange program (30 ECTS), taught and assessed entirely in English: Data Communications and Networking, Programming Languages (OCaml), Electronics and Programming Skills (MATLAB), and Probability, Statistics and Information Theory.
- Grade A in all four courses, average 79%.

2020–2023 | Baccalauréat général — Lycée Notre-Dame des Missions

Charenton-le-Pont, Greater Paris, France. The French national high school leaving diploma, comparable to a Quebec DEC; specialization in mathematics and computer science, graduated with honours (*mention bien*).

PROFESSIONAL EXPERIENCE

July 2024 | Cybersecurity Intern (one-month internship)

Partecis, now Estreem — Charenton-le-Pont, France. A payment processing company of around 200 staff across three sites, handling card transactions for major European banks including BNP Paribas and Groupe BPCE.

- Migrated physical authentication to YubiKey hardware security keys within the information security team, introducing multi-factor and passwordless access control.
- Monitored data access with Varonis, applying real-time surveillance and behavioural anomaly detection to flag irregular activity.
- Ran Qualys vulnerability scans across the workstation and server estate, and reported the resulting security misconfigurations to the team.

July–August 2025 | Front of House and Kitchen Staff (summer position)

Le Mâche-dru — Paris, France. A four-person delicatessen and wine bar.

- Ran full services single-handedly on most shifts — food preparation, table service and wine sales — opening and closing the premises unsupervised.

TECHNICAL PROJECTS

2026–present | Self-Hosted Server Infrastructure

Personal project, ongoing — a continuously running Linux server on a Raspberry Pi 5, hosting luxo-digital.fr.

- Hardened the system with Ed25519 key-only SSH authentication, a default-deny UFW firewall, fail2ban and automatic security updates.
- Reconfigured Docker's iptables handling so that no administration service is exposed to the internet.
- Containerized 20 applications using version-controlled Docker Compose files, behind Caddy as a single reverse proxy issuing automatic TLS certificates through Let's Encrypt.
- Deployed Prometheus and Grafana for system monitoring, and automated deployment from GitHub to the server.

April–June 2026 | Parakeet Deterrent System

Team project, five students, three months — awarded second prize for best project presentation by the school jury.

- Built an autonomous system detecting ring-necked parakeets, an invasive species competing with native birds at garden feeders, and deterring them without disturbing other species.
- Designed a three-unit architecture communicating over Bluetooth Low Energy: a camera unit, an acoustic deterrent unit and a mechanical deterrent unit.
- Trained an image-classification model by transfer learning on Edge Impulse from a dataset of 8,283 images, benchmarking it against a YOLO model and selecting the variant reaching 96% accuracy as the best trade-off between accuracy and on-device footprint.

SKILLS

Security — YubiKey, multi-factor authentication, Varonis, Qualys, vulnerability scanning, system hardening, firewall configuration, container isolation, introductory penetration testing.

Systems and Networking — Linux (Debian), Docker, Caddy, Prometheus, Grafana, systemd, Git, TCP/IP, OSI model, routing and switching, VLAN.

Programming — Python, C, Java, OCaml, MATLAB, Bash, HTML, CSS, JavaScript.

Embedded Systems — ESP32, Arduino, Bluetooth Low Energy, sensors and actuators, KiCad, Edge Impulse, on-device machine learning.

Certification — Cisco CCNA 1 — *Introduction to Networks* (2026).

LANGUAGES

- **French** — native speaker. All schooling and engineering coursework completed in French.
- **English** — fully proficient in a professional setting. Studied and assessed entirely in English for a semester at Heriot-Watt University, Scotland, earning an A in every course.
- **Spanish** — basic working knowledge, eight years of study.

INTERESTS

- **Volunteering** — Vice-President of *ESIEE Sans Frontière*, a twenty-member student charity, elected in September 2026 for a one-year term. Coordinate the committee and run fundraising events on campus, from planning and staffing to liaising with the charity chosen each month, to which all proceeds go.
- **Weight training** — six sessions a week for the past three years.