

PROFILE

Cybersecurity PhD student interested in where machine learning and security meet, both using ML to build better defenses (like intrusion detection systems) and keeping ML systems themselves secure.

EDUCATION

- **Télécom Paris** Palaiseau, France
PhD in Computer Science Oct 2023 – Present
- **University of Turku (EIT Digital Master School)** Turku, Finland
M.Sc. in Information and Communication Technology – Cybersecurity 2022 – 2023
- **Cyberschool, University of Rennes** Rennes, France
M.Sc. in Computer Science – Cybersecurity 2021 – 2023
- **University of Rennes** Rennes, France
B.Sc. in Computer Science 2020 – 2021
- **IUT de Vannes** Vannes, France
DUT in Computer Science – Software Engineering 2018 – 2020

EXPERIENCE

- **Télécom Paris – ACES team** Palaiseau, France
PhD Student Oct 2023 – Present
 - **Applicative intrusion detection:** Designing a new class of applicative data collector that captures real application behavior by instrumenting parser. Implemented the approach by developing [gaur](#), to automatically instrument applications. “Parser Instrumentation for Semantic-Aware Applicative Intrusion Detection”, *IFIP SEC 2026*.
 - **SQL attack detection dataset (Superviz25-SQL):** Produced a high-quality, realistic and diverse SQL attack detection dataset, with a default experimental protocol providing detection methods as baselines. “Superviz25-SQL: high-quality dataset to empower unsupervised SQL injection detection systems”, *ANUBIS, ESORICS 2025 International Workshop*.
 - **Cross-domain benchmark (Superviz26-SQL):** Extended it into the first multi-domain benchmark measuring how ML detectors generalize under different transfer learning settings (cross-domain, concept drift, few-shot adaptation). *In submission process*.
 - **Domain generalization study:** Showed that the nature of the selected feature drives cross-domain transfer for ML-based intrusion detection: detection methods based on protocol-level features collapse under domain shift. *In submission process*.
- **CentraleSupélec – PIRAT team (ex CIDRE)** Rennes, France
Research Intern Feb 2023 – Jul 2023
 - **Exploratory research:** Explored instrumenting parsers to produce semantic data for application-level intrusion detection. The results directly led to my current PhD.
- **SEE-D** Vannes, France
Software Engineering Intern Mar 2020 – Jun 2020
 - **Monitoring application:** Developed a data collection application for the company’s virtual machines (Python, Docker, MongoDB, Bash) and an internal React dashboard to visualize metrics.

PROJECTS

- **Mini-rack homelab:** A small [home cluster](#) managed declaratively with NixOS, where the whole infrastructure is defined as code and self-hosts my personal services, such as a [SNI proxy](#) or a [certificate authority](#).
- **Nix ecosystem contributions:** Maintain packages in nixpkgs (e.g. MLflow), and contribute to community projects such as [nix-topology](#).
- **ScholarSec:** Web app that builds targeted Google Scholar queries filtered by cybersecurity conference venues, organized by CORE ranking tiers. [scholarsec.gqetel.fr](#).
- **TLS Interception Security of Consumer Antivirus (2021 – 2022):** Built a tool inspecting the TLS fields sent by antivirus clients performing TLS interception to verify whether TLS interception is conducted, and if so, how securely it is done.

TECHNICAL SKILLS

- **Machine Learning:** Deep learning and classical ML (PyTorch, scikit-learn), Natural Language Processing (Hugging Face, Sentence Transformers), model evaluation and benchmarking, experiment tracking (MLflow)
- **Infrastructure & IaC:** Infrastructure as code (Nix, Docker), containers and scheduling (Docker, Slurm), monitoring (Prometheus, Grafana), mesh networking (Tailscale, WireGuard)
- **Security:** Intrusion detection systems, TLS interception, certificate authorities / PKI (step-ca), network security
- **Linux & Unix tooling:** Everyday CLI administration (Git, tmux, ...), service management (systemd, nginx), ZFS storage
- **Programming:** Python, Bash, JavaScript (prior experience with C, Java)
- **Languages:** French (native), English (C1), German (A2)