# Vinicius Moreira Nascimento

AI Security | Security Engineer | Computer and Network Engineering

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## Professional Summary

Available from September 2026. AI Security Engineer with an M.Sc. in Computer Engineering from ENSICAEN (France), specialising in Cybersecurity and Artificial Intelligence, and student in Communications Network Engineering at UnB (Brazil), graduating in December 2026. Combining expertise in Cyber Threat Intelligence, Pentest, network security, and Machine Learning to develop intelligent security solutions.

**Certifications:** CompTIA Security+ and AI Security+, Datacamp AI Engineer, Zabbix Certified Professional.

## Education

**M.Sc. Computer Engineering** **Sep 2024 – Sep 2026**
**École Nationale Supérieure d'Ingénieurs de Caen (ENSICAEN)**
Caen, Normandy, France.
Specialisation in Cybersecurity and Artificial Intelligence. Double Degree with UnB (Brazil).
International academic merit scholarship – BRAFITEC programme.

**B.Eng. in Communications Network Engineering** **Aug 2017 – Dec 2026**
**Universidade de Brasília (UnB)**
Brasília, Federal District, Brazil.
Pursued in parallel with military service as a Temporary Signals Officer and international exchange in France.

## Professional Experience

**Orange Innovation** **Feb 2026 – Aug 2026**
*Cybersecurity and Artificial Intelligence Intern*
Caen, France.

- Developed a FastAPI-based system processing over 10,000 daily requests in the Cyber Threat Intelligence domain, enabling dynamic and persistent filtering of WAF alerts using AI models.
- Applied HDBSCAN clustering on latent representations generated by Variational Autoencoders (VAE), using domain adaptation on honeypot-collected data to separate noise from real threats and improve WAF alert prioritisation across Orange subsidiary environments.

**Centre François Baclesse** **Apr 2025 – Aug 2025**
*Artificial Intelligence for Healthcare Intern*
Caen, France.

- Developed and evaluated unsupervised learning pipelines for the stratification and prioritisation of over 600 oncology patients, using PCA, UMAP, K-Means and DBSCAN on multidimensional clinical data to support rapid patient grouping during healthcare crisis scenarios.

**Brazilian Army** **Feb 2018 – Jun 2024**
*First Lieutenant - Signals Branch*
Brasília and Marabá, Brazil.

- Commissioned Technical Officer (Fixed-Term Service Contract). Ranked first in the Temporary Signals Corps Officers preparation course.
- Configuration and monitoring of network infrastructure with over 10,000 assets using Zabbix, Grafana, and Python API integration, maintaining environments aligned with ITIL and COBIT practices.
- Led a 10-person military team responsible for network asset monitoring across all 12 Brazilian Army regions, operational support, and IT procurement projects exceeding R$ 1,000,000 at the Central NOC.
- Commanded a Signals Platoon within the 23°Jungle Communications Company in the Amazon Forest (2019–2021), responsible for tactical communications and network support in critical, remote environments.

## Technical Skills

**Programming:** Python, SQL, Bash, C++, C, Java.

**Artificial Intelligence:** Machine Learning (Scikit-learn, Pandas), Deep Learning (PyTorch, TensorFlow), LLMs, RAG, Generative AI, Reinforcement Learning, Hugging Face Transformers, LangChain.

**Cybersecurity:** Threat Intelligence, SIEM, MITRE ATT&CK, NIST CSF, ISO 27001, Splunk, Wireshark, Nmap, Snort, Burp Suite, Metasploit.

**Data & MLOps:** Spark, MLflow, Weights & Biases, Snowflake, Databricks.

**Cloud & Infrastructure:** AWS (IAM, S3, EC2, SageMaker), Docker, Kubernetes, Grafana, Git, CI/CD.

**Soft Skills:** Leadership, Teamwork, Cross-cultural Communication, Problem Solving, Adaptability.

## Courses and Complementary Training

- SOC Level 1 and DevSecOps – TryHackMe
- Penetration Tester – DESEC (73% complete)
- AI Hacking – TCM Security
- Certificication course AWS Cloud Practitioner.
- Google Cybersecurity Professional Certificate – Coursera
- Google Project Management Professional Certificate – Coursera

## Languages

**Portuguese:** Native **English:** Fluent **French:** Fluent

## Projects

**GREYC Laboratory** **6 months**
*Generative AI and Computer Vision*
Caen, France.

- Industrial project in partnership with the Bayeux Museum and the GREYC laboratory, involving the development of interactive solutions using generative AI and computer vision to promote the cultural heritage of the Bayeux Tapestry, using models such as SAM and CLIP alongside open-source tools from the HuggingFace ecosystem.

**ENSICAEN** **3 months**
*Cybersecurity Awareness and Social Engineering*
Caen, France.

- Academic project. Development of an educational demonstrator of a social engineering attack using a malicious PDF, a Discord-integrated chatbot, LLM APIs, and offensive tools such as Metasploit, aimed at raising awareness of security risks through controlled exploitation.

**DyonaOS** **6 months**
*IoT and Embedded Security*
Brasília, Brazil.

- Research project. Participation in an R&D project for the development of a Smart Water Meter technology with a focus on 5G connectivity and secure authentication using X.509 certificates.

**University of Brasília**
*Extracurricular Activities*
Brasília, Brazil.

- Member of the IEEE Computational Intelligence Society student chapter (2023 AI programme), contributing to technical discussions on AI Security.
- Teaching assistant for the courses “Transport Protocols and Routing” and “Algorithms and Data Structures”.

**Cybersecurity Labs**
*Extracurricular Activities*

- Built a full corporate network simulation in GNS3 (Network Security course, UnB) integrating Snort, Suricata, Wazuh, Zabbix, Kali Linux, and an OSPF backbone with VLAN segmentation using ExOS L3 switches.
- Completed over 30 web penetration testing labs on PortSwigger using Burp Suite.
- Implemented AES, Vigenère cipher breaker, and RSA from scratch in Python; developed labs on elliptic curve cryptography (ECC, ECDSA, OpenSSL, side-channel attacks).
- Practical labs at ENSICAEN using Nmap, Wireshark, OpenVAS, Burp Suite, and Metasploit. Reviewed ISO 27001, NIST CSF, ANSSI guidelines, and the EBIOS risk method.

## References

**Maj Priscilla Farias** – Brazilian Army
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**Dr. Karel Mittig** – CTI Analyst, Orange Innovation
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