

Juan Pablo Sierra Useche

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Education

ITMO University, Master's in Information Security Oct 2024 – Current

- Coursework: ML in Cybersecurity, Network Security, Cryptographic Protocols, Secure Multi-Agent Systems
- Research focus: Blockchain security, cryptoeconomic mechanism design, zero-knowledge proofs for privacy-preserving systems
- Exploring adversarial ML, secure AI model deployment, and privacy-preserving techniques in distributed systems
- Participating in university business accelerator program
- Remote management of Sybil SAS while pursuing studies

Del Rosario University, Bachelor in Applied Mathematics and Computer Science Aug 2019 – Nov 2023

- GPA: 4.34/5, Minor in AI
- Coursework: Machine Learning, Computer Vision, NLP, Cryptography

Experience

CEO & Co-Founder, Sybil SAS – Bogotá, Colombia (Remote) Aug 2023 – Nov 2025

- Built AI automation platform using LangChain/LangGraph, N8N, and MLflow for healthcare sector
- Implemented vector database solutions with ChromaDB for semantic search
- Deployed production ML pipelines with Apache Airflow and MinIO
- Developed information security solutions for Colombian Navy

Vulnerability Management Hunter, SLB – Bogotá, Colombia May 2024 – Aug 2024

- Automated vulnerability scanning and severity assessment using Qualys
- Delivered mitigation playbooks for critical vulnerabilities

Cyber SOC Analyst, SLB – Bogotá, Colombia Jan 2023 – May 2024

- Conducted malware analysis and incident response for SOC
- Predicted and developed response for emerging attack vectors (QR phishing)

Publications

Projects

Snook.py - DevSavant Hackathon Finalist github.com/cbr4l0k/snook.py

- LLM-powered documentation tool with 3D analysis for <\$2 USD
- Finalist in Colombia's first Generative AI Hackathon

Technologies

Languages: Python, Rust, TypeScript, Bash, C++

AI/ML/DC: TensorFlow, PyTorch, HuggingFace, LangChain, LangGraph, scikit-learn

MLOps & Automation: MLflow, Apache Airflow, N8N, ChromaDB, MinIO

Security Tools: Qualys, Nessus, Splunk, Metasploit, Wireshark, BurpSuite

Infrastructure: Docker, PostgreSQL, MongoDB, Git, Azure, GCP, RESTful APIs