Jean Kairo Crispim

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Summary

Senior Telecommunications Engineering student at the Military Institute of Engineering (IME) in Brazil, with an academic exchange experience at the United States Military Academy (West Point). Experienced in web development, academic research, computer networks, and cybersecurity. Strong technical background, leadership skills, and ability to work under pressure — seeking to contribute to advanced research in telecommunications and networking.

Professional Experience

Undergraduate Researcher — CNPq, IME, Brazil   Aug 2023 – Aug 2024

- Conducted the project *Integrated and Multilayer Simulation for Mobile Ad-Hoc Networks in Emergency Scenarios* under Dr. Vítor G. A. Carneiro
- Developed OMNeT++ simulations to model radio propagation and improve communications where infrastructure is down

Coordinator, Computing Division — IME Júnior, Brazil   Feb 2023 – Jul 2023

- Led strategic initiatives and team integration as head of the computing battalion
- Managed multiple civil and military tech projects

Software Developer — IME Júnior, Brazil   Oct 2021 – Jul 2023

- Built applications for civil and military clients using JavaScript (React/React Native), HTML, CSS, Firebase, and GitHub

Education

Military Institute of Engineering (IME), Rio de Janeiro – Brazil   Dec 2025 (expected)

- Solid foundation in telecommunications systems and hands-on lab experience
- Senior Thesis: *Network Automation and Management using SD-WAN* — focused on open-source tools to automate configuration and improve efficiency and security in IT networks

United States Military Academy (West Point), Exchange Cadet in Computer Science and Cybersecurity   Aug 2024 – Dec 2024

Skills

Teamwork & leadership	Problem-solving under pressure
Telecommunications systems	Network automation (SD-WAN)
Clear communication	Adaptability and fast learning
Time management	Software development (React, JS, HTML/CSS)

Projects

- **AI HR Agent — Intelligent Triage with RAG (2025)** Built an AI agent for HR support that classifies employee requests, decides the best action and executes the flow: answer with RAG over internal policies and FAQs, open a ticket in the correct workflow, or collect missing context through guided questions. *Technologies:* embeddings, Google Gemini, LangChain, LangGraph (state/guard orchestration). *Results:* 24/7 consistent support, reduced manual workload for the HR team, modular architecture ready to integrate new channels and knowledge bases.
- **Network Automation and Management with SD-WAN (2025)** Research project using open-source tools to automate configuration and management of network devices, focusing on operational efficiency and security in large-scale environments. Designed an emulated military datacenter topology in EVE-NG representing the Army's Regional Telematics Center, automated configuration using Ansible, and integrated SD-WAN policies for dynamic routing and centralized orchestration. *Technologies:* Cisco vEdge/vSmart/vBond, EVE-NG, Ansible, Linux.

- **Cybersecurity Project — VMware & Linux (2024)** Incident response and recovery of critical infrastructure in VMware vSphere with Linux VMs; configured *pfSense* firewall and monitoring scripts to detect and mitigate attacks.
- **Lunar Lander AI Competition — Gymnasium (2024)** Developed reinforcement learning agents for CartPole and LunarLander; implemented agent–environment loops, performance tracking and custom wrappers.
- **SDN MAC-Learning Controller with P4 — Mininet & P4 (2024)** Built a MAC-learning controller for SDN multi-switch topologies; implemented flow tables, data-plane pipelines, packet/byte counters and automation scripts.

Certifications

TOEFL iBT • CCNA 1 • DELF B2 • Introduction to BGP • Endpoint Security

Languages

Portuguese — native
English — advanced
French — upper-intermediate

Achievements

- Silver medal — Brazilian Math Olympiad (OBMEP)
- Gold medal — Brazilian Physics Olympiad (OBFEP)
- Regional Karate medalist
- 1st place for Medicine at UFFS (SISU national exam)

Hobbies

Beach volleyball — teamwork, discipline, physical conditioning
Reading — interest in diverse topics (finance, religion, technology, etc.)