

Jason Sanchez

Data Analysis | Operations Support

Cliffside Park, NJ | jjsanchez1101@gmail.com | 201-759-9074 | GitHub | Personal Website | LinkedIn

PROFESSIONAL SUMMARY

Computer Science graduate with project experience auditing security data, building donation record systems, and presenting recommendations to stakeholders. Skilled in Excel, SQL, Python, and computer networking. Brings staff coordination, employee training, and bilingual communication experience to operations support.

SKILLS

Data Analysis & Reporting: Excel, PowerPoint, SQL, Python, data quality audits, error analysis, performance metrics, Matplotlib

Networking & Systems: Linux/Unix, VyOS, OSPF, EVE-NG, SSH, Netmiko, Scapy, tcpdump, Wireshark

Databases & Development: MySQL, AWS RDS, REST APIs, JavaScript, TypeScript, Node.js/Express, Git/GitHub

Statistical Modeling: scikit-learn, feature engineering, threshold analysis, false-positive rates, robustness testing

Relevant Coursework: Database System Management, Intro to ML & AI

Languages: English (native), Spanish (fluent)

PROJECTS

DNS Exfiltration Detector

Jul 2026 – Sep 2026

Python, scikit-learn, packet-capture analysis, CIC-Bell-DNS-EXF-2021

- Audited CIC-Bell-DNS-EXF-2021 and traced missing attack queries to truncated packet captures; withdrew an earlier detection score that measured capture artifacts rather than exfiltration.
- Rebuilt labeled data from raw PCAPs, recovering 251,568 exfiltration and 89,533 benign queries; evaluated detectors using held-out captures.
- Showed that a model detecting 100% of benchmark attacks caught only 2.2% of synthetic exfiltration using short hex labels, exposing a generalization limit.

Local NetOps Agent

Jul 2026 – Aug 2026

Python, Qwen2.5-3B, LoRA, Ollama, Netmiko, VyOS, EVE-NG

- Built a local network support tool that retrieves live router information over SSH, runs only approved read-only commands, and answers network questions using that evidence.
- Developed a three-router OSPF lab and repeatable evaluations to assess answer accuracy, consistency, and refusal of unsafe requests; removed leaked topology information.
- Fine-tuned the local model on 59 reviewed trajectories, raising its mean score from 7.1 to 7.9 out of 12 across 10 runs per model on previously seen tasks; gains reflected more consistent answers.

E-Learn Sri Lanka

Sep 2025 – Jan 2026

JavaScript, Node.js, Express, MySQL, AWS RDS, Stripe | CS Senior Project

- Defined requirements with stakeholders for a donation and e-learning platform supporting underserved communities in Sri Lanka.
- Built Express REST endpoints and MySQL donor, payment, and transaction records; integrated Stripe Checkout with webhook verification and duplicate-event safeguards.

EXPERIENCE

Braven Fellowship, Rutgers University — Fellow

Sep 2024 – Dec 2024

- Analyzed survey data and customer research to recommend ways to reach young adults about healthcare options; created and delivered a PowerPoint presentation to Horizon Blue Cross Blue Shield.

Waterside Catering — Shift Lead / Server

Dec 2022 – Dec 2023

- Coordinated staff assignments across event setup, service, and breakdown to keep operations on schedule; trained new employees during high-volume catering events.

EDUCATION

Rutgers University

May 2026

Bachelor of Arts in Computer Science, Minor in Mathematics | GPA: 3.3