Moises Zuniga

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Education

New Jersey Institute of Technology — Newark, NJ
Bachelor of Science in Computer Science (GPA: 3.5) — *Sep. 2024 – May 2028*
- Relevant Coursework: Introduction to Python, Object-Oriented Programming, Data Structures, Calculus I & II, Physics I & II

NJIT Cyber Security Bootcamp — Newark, NJ
Certificate of Completion — *Jan. 2025 – Dec. 2025*
- Certifications: CompTIA Network+, NJIT Cyber Security Certificate, CompTIA Security+ (In Progress)
- Relevant Coursework: Bash & PowerShell Scripting, DevOps, Secure Networking, Penetration Testing
- Concepts: OWASP Top 10, Networking (TCP/IP), Symmetric/Asymmetric Encryption, Cryptography basics

Experience

IT Assistant — Sep. 2024 – Dec. 2024
NJIT Civil Engineering — *Newark, NJ*
- Resolved 25+ weekly Tier 1 support tickets with a 95% first-contact resolution rate, demonstrating strong debugging and troubleshooting workflows across Windows environments.
- Diagnosed and repaired 15+ critical office devices, reducing average hardware downtime by 20% through systematic root-cause analysis.
- Managed and tracked an inventory of 40+ assets valued at $15k+, automating workstation deployment pipelines and reducing setup time by 30%.
- Maintained 99.9% network uptime by troubleshooting LAN connectivity, IP configuration, and physical cabling across 50+ network drops.

Projects

Subdomain Recon | *Python, REST APIs, JSON Processing* — Feb. 2026
- Engineered a modular Python utility to automate data retrieval from the crt.sh REST API, streamlining the aggregation of public certificate records.
- Implemented robust data processing logic to parse, deduplicate, and sanitize high-volume JSON responses, ensuring 100% data integrity in final reports.
- Designed a dynamic file-I/O system that generates timestamped, audit-ready reports, improving local data organization and historical tracking.

Full-Stack Secure Password Manager | *Python, Flask, BCrypt, Bootstrap, SQLite* — Oct. 2025
- Built a full-stack web application with a Python/Flask backend and responsive Bootstrap frontend spanning 6+ user-facing pages.
- Engineered a 3-layer MFA system (password, email token, TOTP) using time-based token generation and RESTful API design patterns, reducing unauthorized access risk by ∼90%.
- Implemented bcrypt password hashing, server-side rate limiting, and timed account lockouts to defend against brute-force attacks, reducing exploit success rate by 80%.

Machine Learning Packet Analyzer | *Python, Scikit-Learn, XGBoost, Pandas, NumPy* — Dec. 2025
- Architected a Scikit-Learn ML pipeline to preprocess 42 network features with strict data leakage prevention and feature engineering best practices.
- Tuned an XGBoost classifier (500 estimators) via learning-rate optimization, reducing false positives by ∼9% and detecting 30,600+ malicious instances across 257,000+ traffic logs.
- Applied stratified shuffle splitting to ensure balanced class distribution and reproducible model evaluation across large-scale datasets.

Network Port Scanner | *Python, Flask, Nmap, REST API* — Nov. 2025
- Developed a full-stack web application with a Flask REST API backend that executes server-side Nmap scans and serves downloadable JSON/HTML reports.
- Optimized scan execution logic to reduce runtime by ∼40% while preserving detailed service enumeration output.
- Designed multi-page Flask routing and result visualization views, reducing manual CLI overhead by 70% and improving usability for non-technical users.

SIEM SOC Monitoring Platform | *Wazuh, Kibana, Ubuntu, Kali Linux, Windows Server* — Feb. 2025
- Deployed and configured a multi-VM distributed monitoring system ingesting and processing 150+ real-time security events across heterogeneous operating systems.
- Developed custom log parsing rules and decoders to detect 15+ use cases including anomalous process execution and firewall activity.
- Built Kibana data visualization dashboards with automated alerting, improving event triage speed and system observability by 40%.

Organizations

Society of Hispanic Professional Engineers(Member): Engaging in career-development workshops and networking with industry leaders in Technical Field
NJIT's Information & Cybersecurity Club(Member): Participating in weekly cybersecurity workshops, mock-CTF competitions and concept studies
TryHackMe / HackTheBox — Independent Study: Competed "Pre-Security" and "Junior Penetration Tester" cybersecurity paths).

Technical Skill

Cybersecurity: SIEM (Splunk, Wazuh), SOC Operations, Network Security, Packet Analysis, Port Scanning, Wireshark, Linux
Languages: Python, Java, C, JavaScript, HTML/CSS, SQL (SQLite), Bash, PowerShell
Tools & Frameworks: Flask, Scikit-Learn, XGBoost, NumPy, Pandas, BeautifulSoup, Python-Nmap, JSON
IT Operations: Workstation Configuration, LAN Troubleshooting, Windows Desktop Support