PERCY EDUARDO FLORES

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SUMMARY

Computer Science graduate (Cum Laude, 3.62 GPA, Dean's List every semester) and current MS Cybersecurity candidate at NJIT. Built and attacked real multi-VM networks, deployed distributed pipelines on AWS EC2/S3/SQS, containerized ML models with Docker, and configured Cisco routers and switches via IOS CLI with hands-on technical depth that maps directly to maintaining, troubleshooting, and coordinating IT equipment in a high-throughput fulfillment environment.

EDUCATION

M.S. Cyber Security & Privacy at NJIT *Expected May 2027*

B.S. Computer Science at NJIT • Cum Laude • GPA 3.62 *May 2025*

TECHNICAL SKILLS

Hardware: PCs, thin clients, handheld scanners, Zebra/laser printers, Android devices, network switches

Systems & Cloud: Windows 10/11, Ubuntu/Kali Linux, AWS (EC2, S3, SQS, Rekognition), Docker, VirtualBox

Networking & Security: TCP/IP, ARP, Cisco IOS CLI (switches/routers), VLANs, OSPF, tcpdump, Ettercap, arpwatch with packet-level diagnostics and MITM detection

Scripting & Productivity: Python, Bash, SQL, PowerShell; MS Office Suite (Word, Excel, PowerPoint, Outlook)

TECHNICAL PROJECTS

ARP Poisoning Attack & Detection Lab — CS 646: Network Protocols Security *Spring 2026*

3-VM Ubuntu/Kali Linux environment • tcpdump, Ettercap, arpwatch, arpspoof

- Configured a 3-machine virtual LAN (Alice/Bob/Eve) and executed a full Man-in-the-Middle ARP poisoning attack using Ettercap, successfully intercepting HTTP credentials transmitted in cleartext
- Deployed arpwatch on the target machine to detect the live attack in real time; dissected ARP frames and telnet sessions at the packet level using tcpdump, diagnosing connectivity anomalies
- Documented the full attack lifecycle with annotated screenshots and proposed network-layer mitigations (static ARP, VLAN segmentation, 802.1X, see reinforced in the Cisco lab below)

Distributed AWS Image Recognition Pipeline — CS 643: Cloud Computing *Fall 2025*

Parallel Java application • AWS EC2, S3, SQS, Rekognition • Amazon Linux AMI

- Provisioned multiple EC2 instances to run in parallel using SQS for inter-instance messaging and S3 for asset storage — architecting the same distributed infrastructure that powers Amazon fulfillment operations
- Resolved real-world AWS environment issues (IAM permissions, dependency conflicts, SDK setup on Amazon Linux AMI) performing troubleshooting done by IT teams

Parallel ML Model Deployment on AWS with Docker — CS 643: Cloud Computing *Fall 2025*

Apache Spark + MLlib • Multi-node EC2 cluster • Docker containerization

- Trained a classification model in parallel across a multi-node EC2 Spark cluster, tuning hyperparameters to maximize F1 score managing full lifecycle from cluster provisioning through production testing
- Containerized the trained model with Docker, producing a portable deployment-ready image that launches on any EC2 instance without manual environment setup, mirroring standardized FC device imaging workflows

Cisco Network Infrastructure Labs — CS 646: Network Protocols Security *Spring 2026*

Cisco Packet Tracer • IOS CLI • Switch/Router configuration, VLANs, OSPF, port security

- Configured Cisco switches and routers via IOS CLI: set hostnames, console/enable passwords, MOTD banners, and enabled SSH-secured remote access, applying the exact hardening steps used on managed network equipment in enterprise and FC environments
- Designed and implemented VLAN segmentation (VLAN 10/20) across two switches with trunk links; enforced port security with violation mode 'shutdown' to automatically disable ports on MAC address spoofing, a direct defense against the ARP attacks explored in other labs
- Performed IP subnetting of 192.168.100.0/24, built a complete IP addressing table for a 4-LAN topology, and configured OSPF dynamic routing between routers and verified end-to-end connectivity across the full network

ACADEMIC RECOGNITION & ADDITIONAL COURSEWORK

Honors: Dean's List every semester from Fall 2021 through graduation • Class Rank: 505 / 1,806 • Department Rank: 86 / 304

Selected Coursework: Scripting for System Admin (A) • Internet & Advanced Internet Applications (A/A) • Android App Development (A) • Database Systems (A) • OS Principles (B+) • Security & Privacy in Computing (B+) • Counter Hacking Techniques • Computer Security Auditing

Authorizations: Authorized to work in the U.S. without sponsorship • Available for all shifts including nights, weekends, and rotating schedules