Jair Ramirez

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EDUCATION & CERTIFICATIONS

Texas State University San Marcos, TX

Bachelor of science in Computer Science (Minor: Mathematics) *August 2025*

Relevant Coursework - **Data Structures & Algorithms** ○ **Object Oriented Programming** ○ **Database Systems** ○ **Computer Architectur**e ○ Assembly Language ○ **Computer System Security** ○ **Computer Sys Fundamentals**

CompTIA

Security+ Certification *In Progress*

PROFESSIONAL EXPERIENCE

Outlier AI Austin, TX (Remote)

Software Engineer - AI Consultant *April 2024 - Present*

- Accomplished **alignment of AI model outputs** with user expectations by evaluating results based on specific user criteria.
- Enhanced **AI model performance** by developing ideal responses that served as benchmarks for training data, aligning model behavior with user prompts.
- Accomplished **swift resolution of technical issues** by effectively addressing complex AI model behavior challenges.
- Improved **development efficiency** by swiftly troubleshooting and resolving AI model issues.

PROJECTS

VM SandBox Project | VirtualBox, pfsense, Ubuntu, Kali Linux, Win XP, Win 95, Wireshark | *November 2024*

- Collaboratively developed **virtual sandbox environments** using **VirtualBox** and **pfSense**, simulating secure multi-subnet networks with **firewalls**, and access control policies.
- Implemented **penetration testing techniques** (e.g., **MS08-067**, **MS17-010**, and **phishing**) to demonstrate real-world vulnerabilities, while analyzing traffic with **Wireshark** for troubleshooting.
- Overcame technical challenges as a team, reinforcing **problem-solving skills** and the importance of robust security practices across software and human domains.

Multi-Server Security Monitoring Lab | Dell PowerEdge 1950 & 2950, Security Onion, Debian | *Feb. 2025 - Present*

- **Deployed a multi-server SIEM lab** using **Security Onion** on a **Dell PowerEdge 1950** and a **Debian-based log collector** on a **PowerEdge 2950** for centralized security monitoring.
- **Configured intrusion detection and real-time log analysis** with **Zeek, Suricata, and Elastic Stack** to detect and respond to security threats.
- **Developing security event correlation rules and automated alerting** to detect unauthorized access and network anomalies.

Home Networking Lab | Cisco Routers & Switches, VLANs, Routing Protocols, CLI | *Jan. 2025 - Present*

- Building a home lab with **Cisco 1841 and 2801 routers** and **Catalyst 3550 and 2960 switches** to develop practical networking skills, including configuring **VLANs**, **inter-VLAN routing**, and **trunking** to manage traffic across devices.
- Exploring **port security** and dynamic routing protocols for secure and scalable networking, while gaining hands-on experience with device configuration via **CLI tools** like PuTTY.
- Using **Wireshark** to analyze network behavior, troubleshoot issues, and optimize performance in a secure and segmented environment.

TECHNICAL SKILLS

Programming Languages - ○ Python ○ SQL ○ Java ○ C++ ○ C ○ Bash/Shell Scripting ○ Verilog ○ MIPS32

Software - ○ VisualStudio Code ○ GitHub ○ PuTTY ○ Wireshark ○Splunk ○ Security Onion ○ AWS EC2 ○ AWS Glue ○ Linux ○ Kali Linux ○ Ubuntu Linux ○ Pfsense ○ Windows ○ Oracle VM ○ Excel

Networking - ○ Network Protocols (TCP/IP, UDP, HTTP, DNS, DHCP) ○ Routing and Switching ○ Firewall Configuration (pfSense) ○ VLAN Management ○ Packet Sniffing and Analysis ○ Subnetting

Security - ○ Penetration Testing (Metasploit, Nmap) ○ Security Monitoring and Threat Detection (Security Onion) ○ Incident Response ○ Log Analysis & SIEM ○ Intrusion Detection & Prevention (Zeek, Suricata) ○ OWASP Top 10

SUMMARY OF QUALIFICATIONS

- **Deadline-driven** with a strong ability to manage multiple projects efficiently
- **Highly adaptable**, quickly learning new network/security tools, platforms, and methodologies
- **Collaborative problem-solver** with experience working in **team environments** to achieve common goals
- **Cybersecurity Knowledge**, Understanding of security protocols, penetration testing, vulnerability assessments, and incident response procedures.
- **Network configuration & troubleshooting**, building skill in configuring routers, switches, firewalls, and troubleshooting network connectivity and routing issues.
- Building expertise in **network design**, **device configuration**, **VLAN management**, **routing protocols**, and **network configuration/security**.