

[JairCodes](#)[Jair Ramirez](#)[jairramirez.tech](#)

Jair Ramirez

(512) 913-3021 | jairr0813@gmail.com

EDUCATION & CERTIFICATIONS

Texas State University

San Marcos, TX

BS, Computer Science (Minor: Mathematics)

August 2025

Relevant Coursework - **Data Structures & Algorithms** ○ **Object Oriented Programming** ○ **Database Systems**

○ **Computer Architecture** ○ **Assembly Language** ○ **Computer System Security** ○ **Computer Sys Fundamentals**

CompTIA

Network+ 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

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.

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 **VLANs**, **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.

NimbusNX | Python, WolframAlpha API, Wikipedia API, SpeechRecognition, PyAudio |

August 2024

- Developed a **Python-based AI assistant** capable of executing tasks via **voice commands**, including **web searches**, **computations**, and **note-taking**.
- Integrated APIs like **Wolfram Alpha** and **Wikipedia** for dynamic and efficient data retrieval.
- Incorporated **personalization features**, such as remembering user names, to create a seamless, hands-free experience tailored to individual preferences.

TECHNICAL SKILLS

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

Software - ○ VisualStudio Code ○ GitHub ○ PuTTY ○ Wireshark ○ Apache Spark ○ Docker ○ Excel ○ AWS Glue

○ Kali Linux ○ Ubuntu Linux ○ Pfsense

Networking - ○ Network Protocols (TCP/IP, UDP, HTTP, DNS, DHCP) ○ VPN Configuration ○ Routing and Switching

○ VLAN Management ○ Packet Sniffing and Analysis ○ Subnetting ○ Firewall Configuration (pfSense)

Security - ○ Penetration Testing (Metasploit, Nmap) ○ Encryption Protocols (SSL/TLS, IPsec) ○ Security Auditing and Logging ○ Incident Response

SUMMARY OF QUALIFICATIONS

- Deadline-driven** with a strong ability to manage multiple projects efficiently
- Highly adaptable**, quickly learning new data 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**, skilled 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**.