Gabriel Rosas

Computer Science and Networking Student

Programming Languages

Python

Java

C++, C#

HTML/CSS

Protocols

- IP
- VoIP
- NAT/PAT
- ACLS
- NTP
- NMAP
- TFTP
- DHCP
- ARP
- BGP
- OSPF
- EIGRP
- RIP
- VRF
- STP
- LWAPP
- CAP-WAP
- SSH

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Github
github.com/TherieI

CISCO CERTIFIED CCNA

Diligent and motivated Computer Science student skilled in problem solving, with solid foundations in math, programming, and experience with Cisco. Adept at independent research, documentation, and collaborating in a team—always maintaining a strong work ethic.

Education

⇒ Newport High School (Expected Graduation: 2022) | GPA: 3.815.

⇒ Microsoft Exam 98-366: Networking Fundamentals | Successfully completed.

⇒ Cisco Certified Network Associate Certification | Cert ID: 9V19CCF3THE1Q6SW.

Skills & Abilities

⇒ Exceptional documentation and organizational abilities.

⇒ Competent, creative problem solver; highly proficient in troubleshooting.

⇒ Compassionate worker who can fit seamlessly into a team.

⇒ Adaptable and flexible in various situations.

Projects

Software

CUCM v12

- VoIP between IP Phones.

Kali Linux

- Network penetration testing and mitigation.

WLC (5500 Series)

- Controlled a WLAN with multiple Wireless Access Points.

VMware ESXi

- Virtualized the CUCM.

Wireshark

- Analyzed network traffic.

Programming

Python Serial Handler

- Automated retrieval of Cisco device output using the serial API in python.

OpenGL (Ongoing)

- Independently researched OpenGL in C++.
- Wrote documentation for GLFW and GLAD installations.
- Working to create basic arcade games to further understanding.

Giga Chess

- Created a multiplayer Chess game using Sockets in Java.
- Managed portions of the game on Github in a team.

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Experience

Wireless LAN Controller

⇒ Configured a WLC to monitor and manage multiple Wireless Access Points.

⇒ Ensured the Wireless LAN had connectivity to the Internet.

Border Gateway Protocol

⇒ Created multiple internal and external BGP networks, in both IPv4 and IPv6.

⇒ Implemented BGP in conjunction with OSPF and EIGRP.

⇒ Learnt and taught eBGP and iBGP to peers.

Interior Gateway Protocols | OSPF, EIGRP

⇒ Configured a multi-area OSPF network with Backbone, Stub, Totally Stubby, and Not So Stubby areas.

⇒ Bridged OSPF and EIGRP networks using network redistribution.

Virtual Routing and Forwarding

⇒ Created VPNs using VRF-lite to isolate BGP and EIGRP traffic across the same network.

⇒ Proficiently subnetted addresses, conserving addressing range.

Cisco Unified Communications Manager

⇒ Managed VoIP sessions, TFTP services, and DHCP services on the CUCM and the CUCME.

⇒ Hosted the CUCM on a VMware ESXi server.

Kali Linux—Layer 2 Attacks

⇒ Investigated and performed ARP Spoofing, DHCP Starvation & MITM, VLAN Hopping, and CDP Flooding attacks.

⇒ Analyzed network vulnerabilities with NMAP, then applied the respective mitigations to the attacks.

Amazon Web Services

⇒ Launched a VPC, S3 Buckets, EC2 Instances, CloudFront, and DynamoDB, following a guide on Amazon.

Network Security with AAA

⇒ Created a Radius server on a Raspberry Pi to authenticate user login credentials on a Cisco router.

⇒ Created a Tacacs+ server on Windows Server 2019 to handle authentication and authorization services and wrote installation documentation on GitHub.