

Aarya Joshi

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About Me

Committed learner in the 3rd year of my bachelor's in information technology, Optical Systems and Sensors. I am profoundly interested by the field of network technologies and management. I also dedicate my interests towards developing various other skills such as Digital Signal Processing, programming languages and engineering concepts. I am also passionate about incorporating Fiber Optics into Wide and Local Area Networks through the various FTTx architectures, particularly FTTH.

Education

Carleton University **September 2021 – Present**
*Bachelor of Information Technology in **Optical Systems and Sensors***

Projects

TL 1 Commands | Ciena Site Manager, Ciena 6500 **November 2023**

- Developed a deep understanding of TL1 commands, showcasing expertise in network management and contributing to a broader skill set.
- Implemented various TL1 commands, including RTRV, to retrieve extensive information about the network and its elements, demonstrating practical knowledge in network diagnostics.
- Applied adept skills in connecting to Network and Shelf processors, facilitating access to critical information for efficient problem resolution.
- Contributed to the optimization of network efficiency through the precise application of TL1 commands for configuration and diagnostics.

Security and Data Communications | Ciena Site Manager, Ciena 6500 **November 2023**

- Analyzed and the critical roles of security and data communication in protecting and controlling network elements within an optical network environment.
- Utilized security applications such as “User Profiles” “Change Password” and “Intrusion Detection” to configure and manage network security protocols.
- Gained practical experience with “<NP IP Provisioning>” for network provisioning and configuration tasks.

Alarms and Error Correction | Ciena Site Manager, Ciena 6500 **October 2023**

- Applied critical thinking and analytical skills to interpret diverse alarm conditions, demonstrating a comprehensive understanding of system health.
- Generated detailed reports outlining effective solutions for the encountered alarms, contributing to continuous improvement of the troubleshooting processes.
- Proficiently navigated Alarm hierarchies and applied masking rules to strategically resolve issues, showcasing adaptability in problem solving.

Personal Portfolio Website | CSS, JavaScript, GitHub **December 2023 – Present**

- Ongoing development of a dynamic personal portfolio website using CSS and JavaScript, showing front-end development proficiency.
- Implementation of responsive design principles for an optimal user experience, emphasizing user centric details.
- Utilization of GitHub for version control and project hosting, highlighting collaboration skills and adaptability in a development environment.
- Integration of creative and interactive elements to showcase skills, projects, and achievements, with a commitment to feature expansion.

Cisco Meraki Wi-Fi 6E WAP Deployment | Cisco Meraki Dashboard **January 2024 – Present**

- Learning and implementing the setup of a Cisco Meraki Wireless Access Point (WAP) with Wi-Fi 6E capabilities.
- Hands-on experience in managing the access point through the Meraki online dashboard, demonstrating proficiency in network administration.
- Utilizing problem-solving skills to troubleshoot issues and optimize wireless network performance.
- Documenting the learning process and achievements, showcasing adaptability and commitment to skill development in network technologies.

Skills

Languages: C, C++, Python, MATLAB, Transaction Language 1 (TL1), Assembly, JavaScript, CSS
Tools: Ciena Site Manager, OC-n Network Cards, DS-n Network Cards, STS Network Cards, Raspberry Pi, Arduino, Ansys Zemax, LABVIEW
Technical Skills: Algorithmic Thinking, Integrated Circuits, Digital Signal Processing, Dense Wave Division Multiplexing (DWDM), Optical Communications, Network Architecture, Troubleshooting and Optimization