

Adam Spera

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EDUCATION

Arcadia University

Distinguished Dean's Honors - Computer Science; GPA: 3.98

Awards: Distinguished Deans Honors, Chairman's Award at First Robotics Competition, Awarded \$5K ITC Research Grant by AU

Glenside, PA

August 2021 - May 2025

CERTIFICATIONS

Cisco Systems - Professional

CCNP Enterprise - Cisco Certified Network Professional Enterprise

DevNet Professional - Cisco Certified DevNet Professional

Cisco Systems - Specialist

DevNet Specialist - Enterprise Automation and Programmability

DevNet Specialist - Data Center Automation and Programmability

Cisco Systems - Associate

CCNA - Cisco Certified Network Associate

DevNet Associate - Cisco Certified DevNet Associate

Fortinet - Training Institute

NSE 2 - Fortinet Certified Associate

NSE 1 - Fortinet Certified Fundamentals

EXPERIENCE

Cisco Systems

Technical Consulting Engineer - Network Recreate Engineer

Full-time Co-Op

January 2023 - July 2023

- **TAC Servicing:** Constructed and implemented network topologies as simulation environments for TAC testing.
- **Device Configurations:** Deployed and configured (L1 and L2) Nexus, Catalyst, NCS, ASA, ASR, and UCS devices.
- **Team Collaboration:** Participated in cross-functional teams to address complex, hands-on network issues.
- **Developed XLinks:** Designed, built, and deployed a new potential lab infrastructure, allowing labs to create virtual links between any internal devices. I proposed this infrastructure prototype to many teams and departments.
- **Developed GCT Portal:** Fully built and deployed a new potential web platform for transferring cases to remote labs in an organized and centralized environment, utilizing multiple REST APIs and internal tool integrations.
- **Developed OT6 Plus:** Developed and deployed an extension to improve the CX Labs primary internal tool through bug fixes, new features, and extended functionalities.

Arcadia University

Network and Systems Administrator

Internship

May 2022 - Present

- **Network Documentation:** Fully documented 90+ MDFs, IDFs, and Cores across campus using Confluence
- **Cisco Meraki Upgrades:** Installed and configured 40+ Cisco Meraki Switches network wide
- **UPS Inventory:** Compiled all APC UPS data across campus into an intuitive UI using data analytic solutions
- **Access Point Mapping:** Identified and mapped all 800+ Aruba access points across multiple campus'
- **Wired Port Consolidation:** Analyzed 1500+ wired ports across campus utilizing Fluke technology's and systems

CodingNinjas

IT Administrator & Counselor

Volunteer

June 2022 - September 2022

- **Network Upkeep:** Maintain stability and reliability across the network to ensure an uninterrupted experience
- **Student Education:** Mentor and teach 30+ 5-14yo students Java and Python fundamentals in intuitive and fun ways

Sparkmate App

Head of Prototype Development

Contract

November 2021 - April 2022

- **Prototype Development:** Developed full stack web app prototype for first and second investment rounds
- **Algorithm Design:** Designed algorithmic framework for a self-learning database focused on scalability
- **Back Office:** Installed back office systems, ex. Microsoft365, Sentinel Systems, and Cisco Enterprise systems
- **Management:** Advised hiring process for over 350 candidates and conducted technical interviews

Arcadia University

IT Networking Assistant

Work Study

September 2021 - May 2022

- **Help Desk Support:** Assisted in helpdesk department to help with capstone projects' technical issues
- **Storage Organization:** Routed and organized all networking supplies across all facilities on campus
- **Impact:** Multiple security vulnerabilities identified through social engineering and cyber solutions, fully patched

PROJECTS

Freshman Year 2021-2022

LaundryLott - University Integrated Laundry App: Published web app for universities to better support their students while offering students an easy way to make money just by doing laundry. Users can start and finish a load with just one click and get rewarded automatically. In 2021, LaundryLott averaged over 150+ daily users and 500+ daily visitors. Tech: JavaScript, NodeJS, Express, MySQL, HTML, CSS, Bootstrap & REST (October '21)

Ocean Of Plastic - Environmentally Conscious Twitter Bot: Every day 8 million new pieces of plastic pollutes our oceans. In a small effort to help, I crafted OceanOfPlastic, a Twitter bot that posts the current total amount of plastic in our oceans. Find it @OceanOfPlasticB on Twitter. Tech: JavaScript, Python & Twitter API (December '21)

Logwrite - Code Debugger in NPM: When programming and testing in JavaScript, the more you test, the more apparent a history of console logs becomes helpful to have. Logwrite allows users to simply use the logwrite.go method, which functions both as a standard print statement and saves history to a local log file. Tech: JavaScript & NPM (November '21)

Safe Links - Cyber Security Chrome Extension: Published on the Chrome Web Store, Safe Links is an extension that provides a safer internet browsing experience. Safe Links automatically scans all links on every loaded page for malicious content, flagging it down if it's evil. Utilization of Google APIs and compact Fetch requests, Safe Links consumes virtually no extra memory or processing power to interrupt daily Chrome usage. Tech: JavaScript, HTML, CSS, Google Cloud Platform & Google Safe Search API. (April '22)

Nodeacle - Oracle Cloud VM Provisioning: Custom automatic Oracle Cloud virtual machine configuration tool for hosting NodeJS services. This project configures iptables rules to expose the necessary NodeJS services to the internet, sets up the node service automatically, and automatically pulls the GitHub repository for you. (November '21)

Sophomore Year 2022-2023

OT6 Plus - Internal Tool Extention: The OT6 Firefox extension improves the CX Labs primary internal tool, through bug fixes, new features, and extended functionalities. This independent project improved both agent efficiency, case time, and future documentation readability by providing a standardized template for cases. (February '23)

HighPri Bot - Alerting Webex Bot: The HighPri Webex bot actively notifies engineers of new high-priority cases, improving case pickup time across multiple labs and teams. This independent project program was hosted in a DMZ zone utilizing both internal and external APIs, focusing on security and efficiency. (April '23)

GCT Portal - Management Web Platform: The Global Case Transfer Portal is a web platform for transferring cases to remote labs in a centralized environment. This platform was built to improve the previous solution. (June '23)

XLinks - L2VPN Configuration API: XLinks is a python based extensible API that automates running physical device links over a virtual MPLS LDP network, utilizing L2VPN Xconnect processes on IOS-XR devices. Created while at Cisco during a coop, this functionality was made, proven, and proposed to many teams. (June '23)

Junior Year 2023-2024

IdioSplash - Open-Source Meraki IPSK Solution for Wireless Networks: IdioSplash is the first open-source solution enabling enterprises to use Cisco Meraki's Identity PSK and WPN capabilities for wireless authentication and network segmentation on a per-user level. IdioSplash is powered by the Meraki Dashboard, as well as multiple cloud solutions, including Cloudflare Domains and Pages, Amazon Web Services (AWS) Lambda, API Gateway, SES, and DynamoDB, all working together to create a seamless user experience while ensuring a simple yet secure backend. (October '23)

ConfigConsult.com - Cisco IOS XE Config Parser: Input any Cisco IOS XE configuration file, and the web app will parse the important interface and VLAN configurations into a readable format. Made with only front-end tools like Bootstrap and Jquery to ensure the safety of the network config files. (February '24)

DPanel - Lightweight Docker Management Platform: DPanel is a lightweight Docker management interface where you can orchestrate containers, images, and compose files easily with a self or remotely hosted agent. Made with FastAPI, Redis, Go, and PubSub libraries. (April '24)

RECOMMENDATIONS

- **Vitaly Ford:** Professor and mentor at Arcadia University. Contact: fordv@arcadia.edu
- **Sarah Mason:** CX Labs team lead and mentor at Cisco Systems. Contact: sarmason@cisco.com
- **Joseph Sasdelli:** Director, Technology Infrastructure at Arcadia University. Contact: josephm@sasdelli.org

MORE FROM ME

- **More:** If you'd like to get in contact with me directly, I encourage you to reach out via LinkedIn, email, or call me!
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