

Lucas H. Miller

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(805) 458-5449

EXPERIENCE

California Polytechnic State University, San Luis Obispo, CA

Senior Network Systems Administrator | Infrastructure Operations

August 2023 – present

- Implemented new campus layer 3 network infrastructure, including 100-gigabit redundant ISP circuits
- Designed highly-available (BGP/VRP) border switch architecture for campus housing on Cisco C9500's
- Built out templates for new wired and wireless network infrastructure managed by Aruba Central
- Network architecture design for major and minor capital projects, including large scale new construction

Network Systems Administrator | Infrastructure and Platform Development

July 2021 – August 2023

- Deployed Aruba ClearPass on Amazon Web Services using AWS CDK and CloudFormation for production, development, and testing environments
- Migrated all wireless and wired network authentication to new production ClearPass cluster
- Automated wired access control to reduce/eliminate staff time spent on device onboarding process
- Design/engineering of new network core/distribution, firewall, and wireless infrastructure for on-campus housing network

Wireless Network Delivery Analyst | Infrastructure and Platform Services Operations

March 2020 – July 2021

- Implemented TACACS+ authentication with ClearPass Policy Manager for network device administrator authentication
- Planned and executed monthly windows for system maintenance/upgrades with minimal client impact

Information Technology Consultant | Infrastructure and Platform Services Operations

Sept 2019 – March 2020

- Migration from ArubaOS 6 to new ArubaOS 8 environment for academic spaces and campus housing
- Designed new support flow to standardize how end-user service desk escalates trouble tickets
- Utilized Splunk to analyze and correlate network usage data to improve capacity and optimize performance

Blizzard Entertainment, Irvine, CA

June 2018 – Sept 2018

Systems Administrator Intern | Global Network Operations Center

- Built website dashboard to consolidate 20 tools used by Blizzard's GNOC to manage operations and incidents

MINDBODY, San Luis Obispo, CA

April 2016 – June 2018

IT Security Engineering Intern

- Operational management of network security devices including Palo Alto Networks next-generation firewalls
- Implementation and improvement of Tenable Nessus for identification and rapid resolution of vulnerabilities
- Upgraded anti-virus software across all environments for more robust malware detection and mitigation
- Monitoring of internal and external user activity using Splunk

EDUCATION

California Polytechnic State University, San Luis Obispo

Graduated June 2019

Bachelor of Science in Business Administration

Information Systems Concentration

TECHNICAL SKILLS

Languages: Javascript, HTML, CSS, Powershell, Python, AWS

Operating Systems: Windows desktop/server, Apple macOS/iOS, Linux (Ubuntu/CentOS), VMware ESXi

Hardware: L2/L3 switches (Cisco, Aruba, Alcatel-Lucent), wireless (Ubiquiti, Meraki, Aruba), firewalls (Palo Alto Networks)

Networking: DNS, DHCP, TCP/IP, 802.1x, RADIUS, TACACS+

Web Platforms: Amazon AWS (EC2, S3, CloudFront, CDK, CloudFormation, Elastic Load Balancing), CloudFlare, Github

SIEMs: Splunk