

Alexander Castellanos

IT Student and Aspiring Data Scientist

Self-driven IT student and aspiring Data Scientist with hands-on experience in networking, servers, and infrastructure. Passionate about building autonomous systems and next-gen technologies from the ground up.

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EDUCATION

High School Diploma

Rock University High School

09/2022 - Present

Janesville, WI

IT Technical Support Specialist Degree

Blackhawk Technical College

09/2022 - Present

Janesville, WI

PERSONAL PROJECTS

Home Data Center & AI/ML Lab (06/2024 - Present)

- Designed, deployed, and managed a multi-node server cluster including Dell PowerEdge (C6100) and HP ProLiant (DL360P Gen8) systems with over 500GB of combined RAM for virtualization and data processing.
- Configured and maintain an enterprise-grade network using a Juniper switch, segmenting traffic with multiple VLANs and bonding interfaces with LACP for increased throughput.
- Implemented a PXE boot environment for diskless client simulation and automated OS deployment, hosting services like game server, and web applications in a virtualized environment.
- Developed and tested disaster recovery plans and performed blue team/red team security assessments to ensure infrastructure integrity.

Faculty Chromebook Charger Tracking Program
(03/2024 - 04/2024)

- Independently designed, coded and documented a program in Python to help school faculty efficiently track the assignment and return of Chromebook chargers.
- The solution streamlined the inventory process, reducing manual effort and improving accountability for school assets.
- Demonstrated skills in problem-solving, software development, and creating practical solutions for real-world organizational needs.

WORK EXPERIENCE

IT Internship

Blackhawk Technical College

06/2025 - 07/2025

Janesville, WI

Achievements/Tasks

- Maintained documentation and inventory of all network assets using Avanti.
- Imaged and deployed operating systems across 200+ student and staff devices using deployment tools.
- Terminated and tested multiple ethernet cable connections across multiple buildings.
- Verified over 30 ethernet ports using Fluke network testers.
- Learned about the configuration and maintenance of enterprise firewalls (Palo Alto) and network systems (Cisco).

SKILLS

Windows Server

PowerShell Scripting

Linux Server (Debian, Arch and Fedora)

Documentation and Backup Plans

Dell PowerEdge and HP ProLiant Systems

Networking (VLANs, DHCP, DNS)

Python and Bash Scripting

PXE Boot, iSCSI & RAID Setups

ORGANIZATIONS

STEM Club - President (09/2024 - 05/2025)

Student Leadership Council - Junior Representative
(09/2024 - 05/2025)

Leadership Development Academy - Member (07/2025 - Present)

CERTIFICATES

CompTIA Tech+ Certified (10/2025 - Present)

Fortinet Certified Associate - Cybersecurity (10/2025 - Present)

LANGUAGES

English

Full Professional Proficiency

Spanish

Full Professional Proficiency

INTERESTS

Server architecture

Virtualized Environments

Network optimization

Smart home automation

Embedded electronics