

JUAN HERRERA AVILA

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COMPUTER SCIENTIST

Computer Science student with enterprise IT support experience managing 2,000+ devices in a large educational environment. Passionate about workflow automation, cloud technologies, and software engineering with hands-on experience in Java, Linux, AWS, and browser automation.

EXPERIENCE

User Support Specialist | Frederick County Public schools

2024 - Current

- Provide technical support for over 1,200 staff and students in a large educational environment
- Manage and troubleshoot more than 2,000 devices including Chromebooks, Windows systems, and classroom technology
- Utilize ServiceNow, Google Admin Console, Active Directory, and Microsoft Configuration Manager for device and user management

NREIP Research | U.S. Naval Research Laboratory

2022 - 2023

- Assisted in analysis of DLITE array radio data related to solar radio burst detection
- Compared publicly available WAVES radio datasets against observational data from array locations in Maryland, Florida, and New Mexico
- Collaborated within a government-affiliated research environment focused on scientific data analysis and radio astronomy systems

Personal Software & Automation Workflow Projects

2020 - current

- Developed browser automation and workflow tools using JavaScript, Selenium, and Puppeteer
- Built utilities and custom scripts focused on improving efficiency and reducing repetitive workflows
- Experimented with AWS cloud hosting, GitHub version control, Linux environments, and AI-assisted tooling
- Managed self-hosted infrastructure projects including VPN configurations, Home Assistant, and virtual machines

TECHNICAL SKILLS AND TOOLS

- HTML/ CSS/ Javascript
- Java
- Python (Foundational)
- C++
- Github
- Active Directory
- AWS
- Google Admin Console

LEADERSHIP AND EDUCATION

- CyberAssociation President Computer Science | Frederick Community College 2021-2023
- FCC SGA Vice President
- FCC Men's soccer Team Captain Computer Science | University of Maryland 2023 - Current

AWARDS AND CERTIFICATIONS

- Patricia Stanley Award of Excellence 2022
- Men of Excellence Award 2023 & 2022
- Dell IT Certification
- Springboard