Andrew Woodlee

Cybersecurity Software Engineer

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linkedin.com/in/andrew-woodlee

github.com/Cybersshell

Education	
University of Alabama in Huntsville, MS in Cybersecurity (Engineering track)Current GPA: 4.0 - slated to obtain Summer 2026	Jan 2025 – present
 University of Alabama in Huntsville, BS in Cybersecurity Engineering Secure Software Development, Embedded Systems, Cybersecurity Engineering Software Reverse Engineering, System Security, Network Security 	Aug 2019 – Dec 2024
Experience	
 Research Assistant II, The University of Alabama System Management and Production Center – Huntsville, Alabama Led Arduino programming for a project for City of Huntsville Includes developing enhancements for audio playback and kinetic movement of the pro- Linux Development for Jackson County Schools (Raspberry Pi for a PX 100 Robotic Arr 	
Certifications	
Security+ Certified Current 701	
Skills	
Linux Expert, and am proficient with C/C++, Go, and JavaScript.	
Server Admin / Docker	
Efficient with Git/Git hosting to develop software and CI/CD pipelines for automate	ed deployments.
Embedded Systems Development: platforms include ESP-32, Arduino, and MSP430.	
Web development includes HTML templating using Pug, a JavaScript library. Node ment.	eJS for backend develop-
At UAH, I use IDA Pro and Ghidra for reverse engineering solutions.	
Extensive set of working abilities with IDS/IPS (Regional UAH Rep. Cyber Defense a	nt CCDC)
Projects	
 Backy (<u>https://backy.cybershell.xyz</u>) Includes Go libraries to create a command execution tool Go's native SSH library to run commands over SSH Go libraries to create a YAML configuration Configuration of notifications on completion and failure 	Sept 2022 – present
 Home server with remote access WireGuard to access home server from VPS Hosting web applications like Nextcloud Secured SEL access over VDN 	Sept 2022 – present

• Secured SSH access over VPN

Cloud Server Administration

- Hosting mail servers (<u>https://stalw.art</u>), FoundationDB as a backend
- Secured FoundationDB with TLS certificates
- Additional applications include Gitea, Linkwarden, and others using Docker
- Data backups are all secured using Restic/Autorestic
- Developed Proprietary System Backy to streamline and automate, ensuring uptime, safety, and compliance

Wallet Transformer Monitor

Sept 2023 - May 2024

- Senior Design Project monitoring a single-phase 120V transformer (ESP-32 and a web dashboard)
- Wrote ESP-32 code that interfaced with an energy sensing chip, temperature sensors, WiFi, and MQTT over SSL.
- Assembled voltage and current sensing, full-bridge rectifier circuits safely

Digital Telepresence (<u>https://git.digitaltelepresence.com/digital-telepresence/</u>) Apr 2022 – Mar 2024

- DTP is an online application suite for the web
- Collaborated building a new system from the ground up
- Designed novel solutions
- Service-oriented MVVM development and separation of concerns