

## SAMUEL HOWARD

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**University of New Hampshire – Durham, NH Bachelor of Arts: Computer Science (Cybersecurity)**

**Programming Languages:** C, C#, HTML/CSS, Java, Python

**Technical Skills:** Agile Sprint Methodologies, AI Tools (Claude Sonnet 4.6, ChatGPT 5.4), Atlassian Suite, Cloud Computing (AWS, Azure, GCP), Google Workspace, IEEE Ethernet Testing, Jira, Microsoft Office Suite, MongoDB

### RELATED EXPERIENCE

**UNH Interoperability Laboratory – Durham, New Hampshire January 2023 – Present**

*Senior Baseband Test Technician*

- Executed rigorous, unbiased interoperability and compliance testing of Ethernet devices across IEEE 802.3 standards (10M-25G), delivering results for industry clients with a commitment to accuracy and integrity
- Designed and built Ethernet cable plants and test fixtures (SMT, through-hole, and SMA soldering) to support in-house test beds across 10M through 10G speeds
- Led a student intern team in building a cable-changing robot, directing Python/Flask development, Arduino integration, and hardware assembly from concept through completion
- Developed a full Visual Basic application using in-house libraries that automated hands-on Ethernet testing procedures, enabling technicians to run tests minimizing manual intervention and significantly increasing testing throughput

### LEADERSHIP ACTIVITIES

**Outward Bound Leadership Semester – Leadville, CO February 2021 – April 2021** *Student*

- Leadership intensive 55 day backpacking and canoeing expedition in the Colorado Rocky Mountains and various locations in the Utah desert
- Led a 10+ person wilderness expedition in the San Rafael Swell, Utah, including navigation, resource management, and critical safety decisions under pressure in a remote environment.

**UNH IOL Summer Networking Class - Durham, NH June 1 2026 – June 26 2026** *Teachers Assistant*

- Supported instruction for an accelerated four-week networking course, assisting students with technical concepts and troubleshooting questions
- Administered exams and maintained academic integrity throughout the assessment process
- Graded assignments and exams, providing constructive feedback to reinforce student understanding

### RELATED PROJECTS

**Network Behavior – Durham, NH August 2025 – May 2026** *Project Leader - Awarded First Place at UNH*

*Undergraduate Research Conference*

- Engineered a Python automation pipeline to parse and process 1,000,000+ line network traffic log files across the school's infrastructure, replacing a manual review workflow and reducing processing time significantly
- Implemented a threat classification system that identified and surfaced "critical" severity security events, enabling faster incident response for network administrators
- Developed a full-stack web application using Flask and HTML to serve as a centralized dashboard for log data, providing an intuitive interface for real-time data extraction and event review

**Cloud-based Music Equipment Alert System - AWS Well Implemented Framework - Spring 2026**

- Designed and deployed a cloud application following the AWS Well-Architected Framework, demonstrating proficiency in scalable, production-grade architecture
- Integrated a third-party marketplace API to monitor used music equipment listings in real time, triggering automated email alerts when tracked items fall below a user-defined price threshold
- Applied core AWS services end-to-end, spanning API integration and event driven logic