DANIEL DIPIETRO JR.
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EDUCATION

University of Rhode Island
B.S. Computer Science Expected May 2029

- GPA 4.0/4.0 | **Schilling Scholar** | Honors College | Data Science Minor | Phi Eta Sigma
- Relevant Coursework: Data Structures & Abstractions, Mathematical Tools for Computing
- Additional Technical Training: Harvard CS50

TECHNICAL SKILLS

Languages: C, C++, Python, SQL
Systems: Linux, POSIX, Bash, Make, SQLite
Developer Tools: Git, GitHub
Web: Flask, HTML/CSS, Bootstrap

EXPERIENCE

Student Information Technologist, URI Memorial Union Jan 2026—Present

- Provide frontline IT support for students and staff by troubleshooting hardware, software, operating system, and connectivity issues in a live campus environment.
- Support day-to-day Memorial Union IT operations by resolving user issues, maintaining website accessibility standards, and assisting with routine technical and security procedures.

PROJECTS

HTTP Server (C++)

- Built a multithreaded HTTP/1.1 server in C++ using POSIX sockets, implementing request parsing, static file serving, MIME type detection, and robust error handling.
- Implemented concurrent client handling and standards-compliant HTTP response generation over raw TCP sockets.

Minimal Unix Shell (C)

- Built a modular Unix shell in C with command parsing, fork/exec-based process execution, built-in commands such as cd and exit, and signal handling.
- Organized the codebase around separation of concerns, defensive error handling, and maintainable systems-level design.

TCP Port Scanner (C)

- Built a multithreaded TCP port scanner in C for Windows using Winsock2, implementing concurrent connection attempts, timeout-based scanning, and banner grabbing.
- Used low-level socket programming to identify exposed services and evaluate network attack surface.

Self-Hosted Ubuntu Home Server

- Built and administered a self-hosted Ubuntu server with approximately 3 TB of storage, handling OS installation, system configuration, and ongoing maintenance.
- Configured Tailscale for secure remote access and private administration across devices.

Password50

- Built a password management web application with encrypted credential storage, authentication, and support for credential creation, editing, and deletion.
- Implemented Flask routing, session-based authentication, SQL CRUD operations, and a Bootstrap-based user interface.

Gemini AI Toolkit (Mini-Hackathon Project)

- Built an AI-assisted math web application in an 8-hour hackathon using the Gemini API, Wolfram Alpha, and Desmos.
- Integrated LLM-generated output with symbolic computation and graphing tools to support math problem solving in a single workflow.

LEADERSHIP & COMPETITIONS

Technical Content Lead, URI Cyber Club Sept 2025—Present

- Lead technical workshops and help develop hands-on cybersecurity labs for club members.
- Coordinate technical content, competition preparation, and weekly event execution.
- Delivered technical presentations on topics including Flipper Zero and log analysis for NCL preparation.

NCAE Cyber Games Competitor Feb 2026

- Competed in a team-based cybersecurity event focused on infrastructure management, networking, and system analysis.
- Solved hands-on challenges involving Linux systems, log analysis, and network troubleshooting.

National Cyber League (NCL) Competitor Mar 2026

- Placed in the top 12.5% in a hands-on cybersecurity competition covering packet analysis, log investigation, web security, and digital forensics.