

James M. Hawley

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EDUCATION

University of Virginia

B.S. Computer Science & B.A. Economics

GPA: 3.894 | Expected Graduation: May 2029

Relevant Coursework: Data Structures & Algorithms, Intermediate Microeconomics, Human-Computer Interaction, Calculus II

Charlottesville, Va

August 2025 – Present

WORK EXPERIENCE

OneRail

Data Science & AI Intern

Orlando, FL

May 2026 – August 2026

- Profiled a NVIDIA cuOpt route optimization pipeline and identified serialized GPU time as its throughput bottleneck
- Redesigned the pipeline to orchestrate multiple concurrent cuOpt solver instances and distribute optimization jobs across them in parallel, raising end-to-end throughput 622% and Optimized Gain 12.6% in controlled testing
- Tracked throughput, compute time, and route quality for each change, cutting compute time and cost on a last-mile delivery platform powering FedEx same-day shipping

Lockheed Martin Missiles and Fire Control

High Performance Computing Intern

Orlando, FL

March 2023 – August 2025

- Built and tuned high-performance computing (HPC) clusters using SLURM, MPI, and CUDA to accelerate large-scale simulation and data rendering workloads
- Deployed scalable compute nodes, expanding data processing capacity for R&D across multiple classified programs

PROJECTS

Full-Stack Web Application

Founder & Lead Developer

Winter Park, FL

November 2021 – May 2025

- Founded the most successful student web platform in Trinity Prep history, growing to lead a 25-member team
- Scaled to 600+ daily users and 420,000+ total views on Next.js, Tailwind CSS, and AWS, with an encrypted MySQL database managing 32,000+ accounts
- Built a sponsor management system that generated new student council revenue and a secure digital elections platform

LEADERSHIP EXPERIENCE

Theme Park Engineering Group (TPEG), UVA

Software & Electrical Lead, Competition Team

Charlottesville, Va

August 2025 – Present

- Lead the software and electrical team for TPEG's competition build: control software and electrical integration

Engineering Student Council

Academic & Professional Development Chair

Charlottesville, Va

August 2026 – Present

- Lead the committee that runs academic and career-readiness programming for SEAS undergraduates

First Year President, UVA

August 2025 – May 2026

- Directed all programming for the first-year engineering class with a \$20,000 budget and 30-member committee, growing Major Declaration to 400+ attendees (+13%)

University of Virginia Student Council

CIO Consultant

Charlottesville, Va

August 2026 – Present

- Ran logistics and operations for the Fall Activities Fair, the largest student-run event in UVA history, with 800+ CIOs
- Advise Contracted Independent Organizations (CIOs) on funding, operations, and Student Council appropriations

ACHIEVEMENTS

- 1st place: Virginia Case Club Competition 2026; 1st place: Lockheed Martin CyberQuest 2023; 2nd place: Lockheed Martin CyberQuest 2024
- 3rd place: CyberPatriot National Competition (Silver League) 2023; 3rd place: Lockheed Martin Code Quest Advanced 2023; 3rd place: University of Florida Programming Competition 2023

SKILLS

- Programming: Python, SQL, R, C++, Java, JavaScript, TypeScript, Swift, HTML/CSS
- Data & Cloud: AWS, PyTorch, TensorFlow, CUDA, Docker, Kubernetes, Linux, Next.js, Node.js, Unity