

# Ethan Carter Edwards

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## Education

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### A.B. in Computer Science and Math, Harvard University (August 2025 - May 2029)

- 3.8 GPA; Relevant Coursework: Graduate Distributed Systems, Operating Systems, Systems and Machine Organization
- The Harvard Crimson Tech Board Member, HFAC Quant, Harvard Political Review Staff Writer, Harvard Political Union Debater, RSEL Fellow, Electrical Team Lead for Harvard Satellite Club (Launch April 2026!)

### A.S. in Science, Wytheville Community College (June 2022 - May 2025)

- Completed concurrently in high school. 2025 John V. Neff Humanities Award. Phi Theta Kappa Honors.
- 4.0 GPA; Calculus, Chemistry, Cybersecurity, British/American Literature, Political Science, Art History

### Advanced Diploma, Carroll County High School (August 2021 - May 2025)

- 4.7/4 GPA; Valedictorian; Programming, Physics, Math, Chemistry, Economics, Drafting
- Varsity Cross Country, Swim, Track, Competitive Math, and Scholastic Bowl Teams
- FBLA Nationals: Computer Problem Solving (3rd), Networking Infrastructures (5th), and Network Design (8th)
- FBLA Regional Vice President, Chapter President; SkillsUSA Web Development District Champion

## Experience

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### Summer of Nix Fellow, NixOS Foundation (June 2025 - September 2025)

- Used Nix, NixOS, Rust, Python, and OCaml to package 50+ programs and modules for clients across the E.U.
- Communicated with a team across 4 continents to develop using Open-Source platforms and methods.

### IT Support Intern Team Lead, Carroll County Public Schools (March 2023 - August 2025)

- Managed a team of 6 interns across three buildings over the span of three years. Hired interns each year.
- Wrote PowerShell scripts to simplify software delivery process for district, saving hundreds of man-hours.
- Deployed 1,200+ Chromebooks and 80+ AV systems; conducted professional development training to faculty and staff.
- Livestreamed, recorded, and managed AV for graduations, board meetings, talent shows, and more.

### Contributing Technical Writer, StorageReview.com (June 2021 - December 2021)

- Wrote 7 articles on networking equipment, enterprise and consumer storage options, and Homelab technologies.
- Benchmarked, tested, and reviewed enterprise and consumer server hosting software.

### Systems Administrator Intern, AlthaTechnology (March 2020 - August 2021)

- Designed and implemented a redundant distributed storage system serving up to 30 servers with 10G fiber network.
- Implemented distributed and highly available compute layer using Docker Swarm, reducing costs by \$300/month.

## Projects

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### The Ridge Podcast, NextJS, Flask, Cloudflare R2, SCSS, Docker, REST APIs [Website](#)

- Developed a custom podcast CMS to serve 500+ daily listeners with 99% uptime using a global CDN system.
- Interviewed 100+ politicians, historians, veterans, musicians, journalists, writers, teachers, and more.

### Dracula Tmux, Bash, REST APIs, Open-Source [750+ GitHub Stars](#)

- Maintainer for a popular Open-Source modular tmux plugin for Linux and \*BSD systems.
- Developed statuses for Kubernetes, Git, Terraform, Weather, GPU/RAM/CPU utilization, and Blood Glucose levels.

### NixOS/Nixpkgs Maintainer, Nix, Python, Rust, Open-Source

- Serve on the MacOS Darwin and NGI dev teams. Maintain 200+ packages. Reviewed 2100+ PRs. 200+ PRs merged.

### Homelab, Home Networking, and Self-Hosting, Docker, ZFS, NFS, Proxmox, Networking

- Maintain a multi-architecture web hosting fleet to host sites with 2K+ daily active users at a 99% uptime.
- Hardware includes Dell Poweredge R320, Cisco 3750G L3 Switch, and managed WiFi Access Points.

## Certifications

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- [FCC Amateur Radio Amateur Extra Class License](#)
- [CompTIA Security+](#)
- [CompTIA A+ \(1101-1102\)](#)
- [\(ISC\)<sup>2</sup> \(CC\)](#)

## Talks/Panels/Presentations

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1. Edwards, Ethan Carter “NixOS, Nixpkgs, and Nix”. Northeastern University Linux Users Group, Boston, MA, November 19, 2025.
2. Edwards, Ethan Carter “Newline Interactive TVs”. Carroll County Public Schools, Hillsville, VA, December 17, 2024.
3. Edwards, Ethan Carter “Philips Interactive TVs”. Carroll County Public Schools, Hillsville, VA, August 1, 2024.
4. Edwards, Ethan Carter et al. “Cybersecurity Education”. Radford University IMPACT Conference, Abingdon, VA, November 9, 2023.

## Journalism Publications, Podcast Appearances

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1. Martinez, Tristan; Edwards, Ethan Carter; Mills, Sophia. “[Voter disenfranchisement and political polarization with Ethan Edwards](#)” *HPR Talk*, October 1, 2025.
2. Edwards, Ethan Carter. “[Dual-Party Primaries Don’t Work for Independents](#)” *Harvard Political Review*, September 25, 2025.