Ethan Anderson

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Summary

Computer science student at Florida State University with a passion for learning and problem-solving. Active CTF competitor committed to growing in cybersecurity, focusing on network security and cryptography.

Education

Pursuing B.Sc. in Computer Science   Florida State University, GPA: 3.894 (2023 - 2026)

Technologies and Languages

Languages	C, C++, C#, Python, Java, x86, Rust, SQL
Tools	Burp Suite, ZAP, TSK & Autopsy, Ghidra, Wireshark, Netcat, Hashcat, JtR, Hydra, Votatility 3, zsteg
Technologies	Relational Databases, Git, CI/CD Pipelines, Docker, React, MongoDB, SageMath, K8s
Spoken/Written	English (Native), German (Intermediate)

Skills

Networking	TCP/IP, IPv4 and IPv6, subnets, VLANs, routing, switching, NAT, VPN, 802.11
Monitoring	Wireshark, tcpdump, tshark, SNMP

Relevant Coursework

Security: CTF (Practical Cyber Operations), Computer Security
Systems: Operating Systems, Computer Organization, Secure, Parallel, and Distributed Applications
Data and Theory: Theory of Computation, Theory of Databases, Discrete Math II, Probability, Data Structures
Software Engineering: Full Stack Development in C#, Software Engineering I

Projects

beef2beef - Secure Chat
- Built a secure end-to-end encrypted chat app with TCP (plus optional Linux Bluetooth) and a PySide6 GUI; automated setup/run with shell scripts and virtualenv. Implemented CLI/GUI flows for listening/connecting peers, enabling many-to-one connections.

Resource Monitor for ARM Systems
- Developed a modular monitoring solution in C for ARM systems on Kali Linux, integrating a kernel module to expose RAM usage and a user-space CPU monitor to calculate per-core usage.

Python SDN Controller & Secure File Fetch
- Created a minimal, extensible SDN controller framework in pure Python, featuring secure authentication and Base64-encoded file retrieval over a simple text protocol.

Automated Content Editing and Publishing Platform (Clip Farm)
- Built a self-hosted Python/FastAPI system that pulls from Reddit (text-to-video) and Twitch/YouTube, cuts highlights into short-form clips, formats to platform specs, burns subtitles, and uploads on a schedule; editing uses command-line tools, and CI on a dedicated server collects artifacts and keeps the workflow repeatable.

Tempura Anime Recommender
- Produced a full-stack web application using React (with TypeScript) and Tailwind CSS for the frontend, and Node.js with Express and MongoDB (via Mongoose) on the backend. The application features user authentication with JWT, caching of anime data from the Jikan API with NodeCache, and social functionalities including friend management, reviews, and activity logs.

Dejiji Bookstore
- Designed and implemented a distributed web-based bookstore platform built with Flask, PostgreSQL, and Python featuring role-based access control, and inventory management.

Affiliations

Active Competitor/Member - *nol3ptr: Capture-the-Flag Cybersecurity Team*	2025 - Present
Event Coordinator - *Florida State University Surf Club*	2024 - Present
Club Member - *Florida State University ACM Chapter, Cybersecurity Club, Cloud Club*	2023 - Present

Contests

Florida State University ACM Programming Contest

Competitor - 4th place	Spring 24'
Proctor	Fall 24', Spring 25'
Question Writer & Contest Developer	Fall 25'

Florida State University CTF Contest

Competitor - 2nd place	Spring 25'

Work Experience

Florida State University Computer Science Department - Lab Monitor   May 2025 - Present - Tallahassee, FL
First point of contact in a 50+ seat computer science lab: document fixes and keeping the space safe and usable for students and faculty.

Coral Hospitality - Range/Cart Attendant   Oct 2022 - Mar 2024 - Naples, FL
Prepared golf carts for daily use, including cleaning, charging, and ensuring proper functioning. Monitored and managed the availability and distribution of golf carts to ensure efficient usage and timely availability for golfers.