

Hunter Thompson

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First-year CS student at Miami University with practical experience building and self-hosting full-stack systems. Passionate about software engineering and quantitative finance, seeking to apply technical skills to real-world software engineering challenges.

Education

Miami University, Oxford, Ohio

Expected May 2029

Bachelor of Science in Computer Science | GPA 3.88

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Intro to Cybersecurity, Calculus I & II, Differential Equations & Linear Algebra

Mount Vernon High School, Mount Vernon, Ohio

Aug 2021 - May 2025

Honors Diploma | GPA 4.35

Technical Skills

Languages: C#, Java, Python, Go, C++, JavaScript, TypeScript, SQL

Frameworks: .NET, Svelte, React, Node.js, Unity

Developer Tools: Docker, Proxmox VE, Nginx, PostgreSQL, RabbitMQ, Git

Projects

Music Tracker | C#, Go, Javascript, Svelte, Docker, PostgreSQL, .NET

- Architected an event-driven microservice system with individually deployable services communicating via RabbitMQ and RESTful endpoints
- Created an authentication service in Go implementing OAuth 2.0 authorization flow with JWT-based session management and active session control with RESTful token refresh endpoints
- Engineered a C# service to ingest user listening history via Spotify's API into a PostgreSQL database
- Integrated RabbitMQ to facilitate asynchronous, event-driven communication between services
- Configured Nginx as a reverse proxy to unify web traffic management and increase service security
- Built a front-end interface using Svelte to visualize aggregated listening history statistics
- Tracked 70,000 streams in 6 months

Schedule Builder | Typescript, Svelte, Docker, Nginx

- Developed a schedule planning front-end application using Svelte with a graphical calendar interface to allow users to quickly visualize and iterate over possible schedule configurations
- Integrated Miami's course data API endpoint to allow users to easily add courses

Home Infrastructure Platform | Proxmox VE, Docker, Nginx

- Deployed a virtualized infrastructure system using Proxmox VE to host isolated services and workloads
- Implemented secure remote access through a VPN gateway
- Configured Nginx as a reverse proxy to enforce access controls and perform TLS termination for externally exposed services
- Designed and established VLAN segmentation to partition network traffic and strengthen internal security boundaries

Extracurriculars

Robotics Club (VEX Robotics), High School

August 2019 - May 2025

Programming Team Lead and Build Team Lead

- Developed autonomous robot routines in C++
- Led primary design and assembly
- Achieved five state tournament qualifications

Varsity Volleyball, High School

March 2021 - May 2025

- 2025 Division 2 State Runner up
- 2023 Division 1 Regional Runner up

Club Volleyball, Advancement Academy & Vanguard

September 2022 - July 2024

- Competed in both regional and national volleyball tournaments