

# Henry S. Trowbridge (喬念唐)

henry@htrow.dev | 808-499-9943 | [Portfolio Website](#) | [LinkedIn](#) | [GitHub](#) | Columbus, OH / Chicago, IL

## Education

### Bachelor of Science in Computer and Information Science

Specialization: *Information & Computational Assurance*; Second Major: Chinese

The Ohio State University: Columbus, OH

August 2022 – December 2026 (Expected)

- GPA: 3.84 (Dean's List all completed terms)
- Student member of ACM (Member ID: 7641930, [htrowbridge@acm.org](mailto:htrowbridge@acm.org))
- Relevant Coursework: Java, Operating Systems, Web Applications, Data Structures and Algorithms, Information Security (Curriculum Covering Security+)

## Work Experience

### Undergraduate Research Assistant (Industrial Cybersecurity Lab)

Center for Design and Manufacturing Excellence

Columbus, OH

May 2025 – Present

- Co-led development of an interactive web app, [improving small-business defense contractors' DoD CMMC 2.0 cybersecurity compliance](#)
- Developed a full-stack web app using container technologies, a custom database with role-based access controls (RBAC), and Python APIs for backend functionality; managed with Agile/Scrum and frequent client meetings
- Ran blockchain (hyperledger fabric) pruning and performance experiments

### Software and Data Engineer Intern

GovRat

Washington, D.C. (Remote)

September 2025 – Present

- Developed Python-based automation to ingest and structure federal contracting data
- Ensured data reliability and consistency for in-house LLM (Large Language Model) training, directly enhancing the platform's ability to draft compliance-ready government-contract proposals

### Classroom and Digital Union Support Technician

The Ohio State University Office of Technology and Digital Innovation

Columbus, OH

March 2025 – September 2025

- Resolved mission-critical IT/AV failures in classrooms, ensuring uninterrupted instruction for hundreds of students weekly
- Delivered faculty training and troubleshooting support that boosted classroom tech uptime and reduced repeat service calls

### Accounting Intern

Jeffrey W. Krol & Associates, Ltd.

Chicago, IL

June 2023 - August 2023; May 2024 - July 2024

- Migrated client data from QuickBooks Online to Desktop, creating standardized documentation that colleagues reused
- Built digital archival system and Excel dashboards, reducing reporting turnaround time and improving investment tracking

## Technical Projects

### Debian Package Mirrors

June 2025 – February 2026

- Deployed Debian mirrors on FreeBSD (and Debian) with NGINX, provided reliable package access for users
- Automated synchronization with official repositories, ensuring updated packages with minimal downtime

### Henry Codes - Personal Portfolio (Live-Hosted) | [GitHub](#)

January 2025 – Present

- Designed and self-hosted secure, reproducible, Docker-containerized portfolio site (on Debian, NGINX, PHP) with Cloudflare

### Hack OHI/O 12: AEP Challenge | [GitHub](#)

October 2024

- Leveraged a local LLM (Llama 3.2 via Ollama) to analyze incident datasets, looking for highest-risk events at Ohio State's largest hackathon

## Extracurricular Activities (at Ohio State - Columbus, OH)

- Vice President, [Cybersecurity Club](#) | Nov 2022 – Present | Organized events (BuckeyeCTF, Ohio LinuxFest collab) and meetings
- Member, [Open Source Club](#) | Sep 2024 – Present | Advocated for Linux and open-source tools
- Member, [History Club](#) | Oct 2022 – Present | Learned history; presented on Chinese three-kingdoms periods and other topics
- Consulting Member (Former President), [Buckeye Table Tennis Club](#) | Aug 2022 – Present | Player and consultant

## Skills

- **Backend Development:** Python (FastAPI, Flask, SQLAlchemy, Alembic, Pandas, Plotly, REST APIs), Ruby (Ruby on Rails), Java, C#, C, SQL (PostgreSQL, SQLite)
- **Infrastructure & Security:** Linux (Debian, RHEL), FreeBSD, Docker, Podman, Git, NGINX, SSH, RDP, UFW, Firewalls, Webservers, Cloudflare, Tailscale, Zero Trust, Principle of Least Privilege, Access Control Lists, Role-Based Access Controls
- **Frontend Development:** HTML, CSS, JavaScript, Jinja, TailwindCSS
- **Professional:** Agile/Scrum, Client Communication, Project Management, Technical Documentation, English (Fluent), Chinese (Professional Working Proficiency)