

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*

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

The Ohio State University: Columbus, OH
August 2022 - December 2026 (Expected)

Work Experience

Undergraduate Research Assistant
Center for Design and Manufacturing Excellence

- 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

Columbus, OH
May 2025 - Present

Software and Data Engineer Intern
GovRat

- 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

Washington, D.C. (Remote)
September 2025 - Present

Classroom and Digital Union Support Technician
The Ohio State University Office of Technology and Digital Innovation

- 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

Columbus, OH
March 2025 - September 2025

Accounting Intern
Jeffrey W. Krol & Associates, Ltd.

- 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

Chicago, IL
June 2023 - August 2023; May 2024 - July 2024

Technical Projects

Debian Package Mirrors

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

June 2025 - February 2026

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

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

January 2025 - Present

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

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

October 2024

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, Web servers, 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)