Henry S. Trowbridge (喬念唐)

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

Education

B.S. in Computer and Information Science (Specialization: Information & Computational Assurance); Second Major: Chinese
The Ohio State University, Columbus, OH | Aug 2022 - Dec 2026 (Expected)

- 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 (Mirrored Security+ Certification)

Work Experience

Software and Data Engineer Intern | *GovRat*, Washington, D.C. (Remote) | Sep 2025 – Present

- Expanded AI training datasets by integrating novel data sources, improving model coverage and diversity
- Automated data collection and processing to enhance the training pipeline

Undergraduate Research Assistant (Industrial Cybersecurity)

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 access controls, and Python APIs for backend functionality; managed with Agile/Scrum and frequent client meetings
- Ran blockchain (hyperledger fabric) pruning and performance experiments

Classroom and Digital Union Support Technician | *The Ohio State University OTDI*, Columbus, OH | Mar 2025 - Sep 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 | Jun 2023 - Aug 2023; May 2024 - Jul 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 | Jun 2025 - February 2026

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

Henry Codes - Personal Portfolio (Live-Hosted) | [GitHub](#), Jan 2025 – Present

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

Hack OHI/O 12: AEP Challenge | [GitHub](#), Oct 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 (Ohio State: Columbus, OH)

- **Vice President, Cybersecurity Club** | Nov 2022 - Present: Organized events (BuckeyeCTF, Ohio LinuxFest collab) and meetings
- **Member, Open Source Software Club** | Sep 2024 - Present: Advocated for Linux and open-source tools
- **Member, History Club** | Oct 2022 - Present: Learned history; presented on China
- **Consulting Member (Former President)**, Buckeye Table Tennis Club | Aug 2022 - Present: Player and consultant

Skills

Domain	Skills and Technologies
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
Frontend Development	HTML, CSS, JavaScript, Jinja, TailwindCSS
Professional	Agile/Scrum, Client Communication, Project Management, Technical Documentation, English (Fluent), Chinese (Intermediate)