

Henry S. Trowbridge (喬念唐)

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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: 3.87 (Dean's List all completed terms)
- Relevant Coursework: Java, Operating Systems, Web Applications, Data Structures and Algorithms, Information Security (Mirroring 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)

The Ohio State University's 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, 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 Mirror | Jun 2025 - Present

- Deployed Debian mirror on FreeBSD with NGINX, providing reliable high-throughput package access for users
- Automated syncs with official repos, ensuring updated packages with minimal downtime

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

- Designed and self-hosted secure portfolio site (Debian, NGINX, PHP) with Cloudflare DDoS protection, strengthening personal brand and online presence

Hack OHI/O 12: AEP Challenge | [GitHub](#), Oct 2024

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

Extracurricular Activities

Vice President (Former President), Buckeye Table Tennis Club | Columbus, OH, Aug 2022 - Present: Managed club practices and competition preparation

Vice President, Global Learning & Exchange Association | Columbus, OH, Jun 2025 - Present: Helped organize cultural learning and exchange events

Member, Cybersecurity Club | Columbus, OH, Nov 2022 - Present: Studied cybersecurity and improved skills with CTFs such as BuckeyeCTF

Member, Open Source Software Club | Columbus, OH, Sep 2024 - Present: Advocated for Linux and open-source tools

Skills

| Domain | Skills & Technologies |
|---------------------------|--|
| Backend Development | Python (FastAPI, SQLAlchemy, 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, UFW, Cloudflare, Tailscale, Zero Trust, Hyperledger Fabric |
| Frontend Development | HTML, CSS, JavaScript, Jinja |
| Professional | Agile/Scrum, Client Communication, Technical Documentation, English (Fluent), Mandarin Chinese (Intermediate) |