

Henry S. Trowbridge (喬念唐)

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Education

Bachelor of Science in Computer and Information Science Specialization: <i>Information & Computational Assurance</i> ; Second Major: <i>Chinese</i> <ul style="list-style-type: none">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)
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Work Experience

Undergraduate Research Assistant (Industrial Cybersecurity Lab) <i>Center for Design and Manufacturing Excellence</i> <ul style="list-style-type: none">Co-led development of an interactive web app, improving small-business defense contractors' DoD CMMC 2.0 cybersecurity complianceDeveloped 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 meetingsRan blockchain (hyperledger fabric) pruning and performance experiments	Columbus, OH May 2025 - Present
Software and Data Engineer Intern <i>GovRat</i> <ul style="list-style-type: none">Developed Python-based automation to ingest and structure federal contracting dataEnsured 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 <i>The Ohio State University Office of Technology and Digital Innovation</i> <ul style="list-style-type: none">Resolved mission-critical IT/AV failures in classrooms, ensuring uninterrupted instruction for hundreds of students weeklyDelivered faculty training and troubleshooting support that boosted classroom tech uptime and reduced repeat service calls	Columbus, OH March 2025 - September 2025
Accounting Intern <i>Jeffrey W. Krol & Associates, Ltd.</i> <ul style="list-style-type: none">Migrated client data from QuickBooks Online to Desktop, creating standardized documentation that colleagues reusedBuilt 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 <ul style="list-style-type: none">Deployed Debian mirrors on FreeBSD (and Debian) with NGINX, provided reliable package access for usersAutomated syncs with official repositories, ensuring updated packages with minimal downtime	June 2025 - February 2026
Henry Codes - Personal Portfolio (Live-Hosted) GitHub <ul style="list-style-type: none">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 <ul style="list-style-type: none">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)