

Henry S. Trowbridge

EDUCATION

The Ohio State University, Columbus, OH — first major: *Bachelor of Science in Computer and Information Science*, specialization: *Information and Computational Assurance*; second major in *Chinese*

AUGUST 2022 - PRESENT

- Qualified for Dean's List for all four completed semesters due to a 3.94 cumulative GPA; heavily involved on campus
- Third-year student; taken various core computer science courses, in Java, C, and data structures.

EXPERIENCE

Jeffrey W. Krol & Associates, Ltd., Chicago, IL — *Accounting Intern*

JUNE 2023 - AUGUST 2023; MAY 2024 - JULY 2024

- Gained general experience working in an office environment
- Managed and created accounting spreadsheets and reports in Excel using best practices, applied many formulas
- Reset and managed computer systems; provided technical support to colleagues
- Book-kept with Microsoft Access and various office database systems
- Managed investment distributions and reconciled checks and deposits with Quickbooks 2020

TECHNICAL PROJECTS – Visit my portfolio website and GitHub for more information

[Henry Codes](#), [GitHub](#)

JANUARY 2025

- Learned how to self-host: setup NGINX web server, running on Debian 12
- Setup SSH server (OpenSSH) for remote management, with appropriate ED25519 key authentication
- Setup a firewall (UFW) following best security practices; zero-trust
- Learned how to setup appropriate DNS records (subdomains, and PHP instance with Cloudflare for DDOS protection)

[OPRF Games](#), [GitHub](#)

SEPTEMBER 2018 - MAY 2021; JANUARY 2025

- Built a robust games website in PHP and JavaScript (originally based on flash, primarily)
- Built custom styling in CSS to make a coherent website, inspired by W3Schools
- As of 2025, updated for modern web standard, including adding Ruffle flash emulator and self-hosted

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

OCTOBER 2024

- Used Python to parse real-life data from CSV and make presentable representations of it
- Learned Python by experience: installed Python packages, setup a Python virtual environment for dependencies, and used various Python libraries (Ollama, CSV, Plotly, and Pandas) to analyze the provided data and present it
- Used a LLM: Meta's llama 3.2 in a local instance via Ollama, to categorize and process data to filter for high-energy (high-risk) events

Table Tennis Simulator, [GitHub](#)

FEBRUARY 2024 - APRIL 2024

- Used Java object-oriented programming conventions
- Developed a set of classes to model games played by table tennis players and round scores based on 'equal' skill

Page Password Protector, [GitHub](#)

OCTOBER 2018

- Developed a simple, encrypted interstitial password-protected webpage system in PHP, using PHP sessions
- Requires a user to input a password which is stored server-side before page contents are populated and displayed

EXTRACURRICULAR ACTIVITIES

Buckeye Table Tennis Club, Columbus, OH — *Vice President (former President)*

AUGUST 2022 - JANUARY 2025:

- Advocate for the club's best interests (play space, competition registration helper, meeting setup)
- Play both competitive and recreational table tennis

Cybersecurity Club, Columbus, OH — *Member*

NOVEMBER 2022 - PRESENT

- Learn more about cybersecurity best practices and other topics through activities and presentations
- Attend engineering meetings and contribute to improving club infrastructure

Open Source Software Club, Columbus, OH — *Member*

SEPTEMBER 2024 - PRESENT

- I use Linux daily to gain experience and learn how it works
- I advocate for free (libre) software adoption and discuss developments in that space

History Club, Columbus, OH — *Member*

OCTOBER 2022 - PRESENT

- I learn more about history through presentations and social events

SUMMER INTERNSHIP

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ON-CAMPUS JOB

CONTACT INFO

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LINKS

[Portfolio Website](#)

[LinkedIn](#)

[GitHub](#)

[Handshake](#)

SKILLS

Java

JavaScript

HTML

CSS

PHP

C

x86-64 Assembly

Web Development

Front-End Dev

Linux: Debian; RHEL

SSH (OpenSSH)

NGINX

UFW

Cloudflare

CLI

Git

Python (Novice)

FreeBSD (Novice)

Podman (Novice)

Container Development

Version Control

Object-Oriented Programming

Procedural Programming

Data Structures and

Algorithms

SQL (Novice)

Time Management

Communication

Adaptability

Bookkeeping

Microsoft Office

Microsoft Excel

LANGUAGES

English, fluent

Chinese, intermediate

EXTRA EXTRACURRICULARS

ACM-W

Buck-I-Watch