

# Henry Lin

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## SKILLS

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**Programming languages:** Bash, C++, C#, JavaScript, Python, SQL, Visual Basic

**Technologies:** Git, HTML5/CSS, Jira, Linux/Unix, Unity, Unreal

**Activities:** WolverineSoft, WolverineSoft Studio

## PROJECT EXPERIENCE

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### University of Michigan - WolverineSoft Studios, Curse of the Corsair

*Programmer*

*January 2023 – August 2023*

- Collaborated with art, design, and production members in semester-long multi-disciplinary game project productions.
- Facilitated weekly meetings to test weekly builds, discuss solutions to implementation and scope issues, and establish goals and tasks for development sprints to produce a quality product within a limited timeline.
- Created and iterated upon UI/UX features according to design documentation and user feedback.
- Debugged over 40 issues, eliminating over 10 percent of all reported bugs during development.
- Provided technical support for non-programmers, providing guidance on Git, Unity, and navigating the C# codebase.

### Web Crawler (*Python*)

*February 2023 – March 2023*

- Designed a web crawler in Python to extract 2000+ links using the requests library, further parsed to exclude equivalent, duplicate, or invalid (e.g., non-HTML) links.
- Coded a PageRank algorithm to assign page relevance scores according to number of inward/outward links.

### Cavelit (*C#*)

*November 2022 – December 2022*

- Produced a capstone project with a team to create an interactive user experience presented at a public expo.
- Implemented system and UI/UX features using Unity engine and C# scripts.
- Incorporated Agile workflow with weekly milestone deliverables and iterations based on feedback sessions.
- Conducted QA through internal testing and holding user feedback sessions to identify and resolve bugs.
- Produced marketing materials and web presence for game, including [itch.io](#) and [GameJolt](#) pages and game trailer.

### Insta485 (*HTML5/CSS, JavaScript, Python, SQLite*)

*February 2022 – March 2022*

- Built an Instagram-clone web application, allowing users to log in, publish posts, and modify existing posts, as well as view and follow other users.
- Implemented server-side dynamic pages by applying the Python Flask web framework and Jinja templates to generate personalized HTML web pages for users based on follower activity.
- Incorporated client-side dynamic pages with JavaScript and the React library, enabling real-time interaction - including liking and commenting - between users and posts.
- Maintained SQLite database storing information such as user login and follow statuses, as well as posts comments, content, and likes.

### Maptivity (*HTML5/CSS, JavaScript*)

*March 2022 – April 2022*

- Designed and implemented a website to help users find activities and corresponding locations around the Ann Arbor area using the Google Maps API.
- Utilized storyboards and Figma to develop and iterate upon low fidelity prototypes.

## WORK EXPERIENCE

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### KUKA Assembly & Test Corp

Saginaw, MI

*Intern*

*July 2022 – August 2022*

- Developed custom interactive manual template for customer's project implemented in HTML, CSS, and JavaScript to be used by the technical writer team for future manuals.
- Devised and set up core features such as interactive diagrams and sortable data tables.
- Proposed use of single HTML page manual to accommodate simpler implementation of document-wide search.
- Participated in regular team meetings and delivered presentations to update supervisor and team members on progress, iterating and making improvement based on feedback and suggestions.
- Wrote documentation for technical writers adapting the manual template for later projects.

## EDUCATION

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### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering in Computer Science*

*April 2023*

**GPA: 3.43/4.00**

**Relevant coursework:** Game Development, Web Systems, Information Retrieval & Web Search, User Interface Development, Software Engineering, Data Structures and Algorithms, Introduction to Computer Organization

**Honors:** Dean's List, University Honors