

Henry Lin

Software Developer | (810) 498-8328 | henrlin@umich.edu | [Portfolio](#) | [GitHub](#)

SKILLS

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

Technologies: Confluence, Git, HTML5/CSS, Jira, Linux/Unix, SQLite, Unity, Unreal, Visual Studio, Visual Studio Code

Activities: WolverineSoft, WolverineSoft Studio

PROJECT EXPERIENCE

University of Michigan - WolverineSoft Studios

UI Programmer (C#, Unity)

January 2023 – Present

- Collaborated with art, design, and production teams in semester-long multi-disciplinary game project productions.
- Facilitated weekly meetings to regularly test stable builds, discuss implementation and scope details, and establish goals and tasks for development sprints to produce a quality product within a limited timeline.
- Worked with design team to create and iterate upon UI/UX features according to changes in design documentation, user feedback, and asset integration needs.
- Debugged over 40 issues, eliminating over 10 percent of all reported bugs during development.
- Provided technical support for non-technical teammates, providing guidance on source control and in-engine tools.

Web Crawler (Python)

February 2023 – March 2023

- Designed a web crawler in Python to extract 2000+ links by employing 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 amount of inward/outward links.

Cavelit (C#, Unity)

November 2022 – December 2022

- Produced a game for a capstone design experience project, presented at a public expo as an interactive user experience.
- Adapted decoupled systems and UI/UX features to be compatible with other programmers' systems.
- Incorporated Agile workflow by breaking down project timeline into weekly sprints and establishing a feedback loop through hosting regular testing sessions to facilitate iteration throughout development.
- Ensured quality user experience by conducting quality assurance testing and creating stable builds for deliverables.
- Devised marketing materials and web presence for project, including [itch.io](#) and [GameJolt](#) pages and game trailer.

Insta485 (HTML5/CSS, JavaScript, Python, SQLite, React)

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 application backend with Flask and a SQLite database to process HTTP requests and generate personalized HTML web pages for users using Jinja templates.
- Incorporated client-side dynamic pages with web components utilizing the React library, enabling real-time interactions such as liking and commenting on user posts.
- Maintained a SQLite database storing information such as login credentials, user profile and follow status, as well as post content and likes.

Maptivity (HTML5/CSS, JavaScript)

March 2022 – April 2022

- Designed and built a website to find notable attractions around Ann Arbor with the Google Maps API.
- Constructed low fidelity prototypes to drive development using storyboards and Figma.

WORK EXPERIENCE

KUKA Assembly & Test Corp

Saginaw, MI

Intern (HTML, CSS, JavaScript)

July 2022 – August 2022

- Developed an offline web application used to create digital manuals packaged with custom-made assembly and test equipment for clients in the automotive industry.
- Implemented features requested in client specs such as page-wide search, sortable data tables, and interactive diagrams.
- Participated in regular team meetings and delivered presentations to project progress, using received feedback to further iterate and improve on the application.
- Supported nontechnical members with use of the application through individual meetings to walkthrough on usage, as well as writing supporting documentation throughout development.

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science

May 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