

Hayden Hanson

Software Developer

Ambitious Computer Science Student Seeking Software Engineering Position

EDUCATION

George Mason University

Applied Computer Science, B.S.

Concentration: Software Engineering

Awards: Deans List 7 Semesters

GPA: 3.6 — Aug/2019 - May/2024

TECHNICAL SKILLS

Languages: Typescript, Java, Python, C, Javascript, R, Dart + HTML and CSS

Frameworks & JS Tools: React, NextJS, Astro, Svelte/kit, Webpack

Notable Tools: Git, Express, tRPC, Unix, Firebase, SQL, MongoDB, Prisma, Tailwind, Figma, REST API's, Flutter, JUnit, Jest, Microsoft Office Suite

Concepts: Agile, UI/UX Design, Microservices, Usability Analysis, Problem Solving, Teamwork, Algorithms, Data Structures, Client Relations, Performance

REFERENCES

Paul Ammann: pammann@gmu.edu

Jeff Offutt: offutt@gmu.edu

Kevin Moran: kpmoran@gmu.edu

Thomas LaToza: tlatoya@gmu.edu

WORK EXPERIENCE

Web Developer, Craftworks Software — Jan/2023 - Present

As the founder of Craftworks Software, I provide end to end web solutions for my clients. This includes the design, implementation, development, and hosting of high-end custom websites. Through successful collaborations, I have cultivated strong relationships and valuable experience in the field of web development. I work with React, Typescript, Prisma / SQL, and external API's on a regular basis.

Software Engineer Intern, DevX Labs — June/2023 - Aug/2023

At DevX, I worked with a team of developers and researchers to create a debugger called Hypothesizer. It is designed to help developers debug modern web applications. My role involved writing Python command line tools, working with the OpenAI API, creating concise demos, onboarding ASSIP interns, writing multiple web apps with Webpack and React for testing with our debugger, and extensively documenting all of our processes and findings.

Teaching Assistant, GMU — Aug/2022 - Present

In Fall of 2023 I helped Professor Michael Reep with SWE 432: Web Application Development. I help students grasp concepts such as UI/UX design, HTML, CSS and JS, the DOM and NodeJS. I do this during in-class sections and online Q&A's.

In both Spring 2023 and Fall 2022, I assisted the Computer Science Department with the SWE 205 class sections. Collaborating with Professors Jeff Offutt and Paul Ammann, I helped teach students quantitative engineering principles, facilitated discussions, and provided grading and constructive feedback to enhance student learning. SWE 205: Software Usability Analysis and Design.

PROJECTS

Code Snippets: Web Application

- Achieved the design and implementation of a full stack modern web application. This is an application where users can quickly save code snippets and notes.
- The goal was to learn tRPC, MySQL, and Prisma through experience and to create a beautiful but simple user interface with my own library of components.

Taskman Process Manager: Unix Shell

- Achieved the design and implementation of a fully featured Unix Shell. This was done in the C programming language. It contains features such as process creation, termination and suspension. Allows processes to run in the background if specified.

+ **Plus More:**

- In depth overviews of all my projects can be found at <https://www.haydenhanson.dev/>

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