Tyler Lawson

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Education

Michigan State University - East Lansing, MI **Sept 2016 - May 2020**

B.. in Computer Science

Minor in Entrepreneurship and Innovation

Boston College High School - Boston, MA **Sept 2012 - May 2016**

Diploma

Experience

Software Engineer II at Author by Humana - Boston, MA **May 2020 - Current**

- Joined in May and helped launch two websites for the start of 2021 and our first insurance plan year. See our public-facing site at authorbyhumana.com
- Our websites use React with Typescript with a shared components library. One site uses Gatsby, the React static site generator. The other uses React using create-react-app.
- Help build and maintain a .NET/C# API for consuming member insurance information.
- I mentor teammates with our frontend technologies and have been responsible for a significant share of inter-team communications (design, testing, business.
- I have been the primary developer responsible for mentoring our automation engineer in order to automate testing, deployments, and notifications.

Software Development Intern at Humana - Louisville, KY **May 2019 - May 2020**

- Developed Python Flask API for a project management dashboard.
- Worked with Azure pipelines and GCP app engine to facilitate CI/CD.
- Worked on a second project, which was a dashboard that used Vue and .NET Core.

Software Development Intern at 2Is inc. - Walpole, MA **May 2018 - August 2019**

- Used Test Driven Development technique to develop an SAP Interface with Northrop Grumman. Worked overtime to complete this project at the end of the summer.
- Wrote back-end code using Common Lisp
- Refactored legacy code and created new unit tests in Common Lisp
- Researched and demo'd new web frameworks for the web team.
- Made installers using Inno Setup and Pascal.

Front End Development Intern at Getfused - Boston, MA **May 2017 - Aug 2017**

- The only web experience I had prior to this job was by using a GoDaddy website builder. I learned how to build sites using simple CSS/HTML and then found a new interest in static site generators, like Hugo and Jekyll.
- Learned the importance of caring for CSS and and reusable components before anything else in web development.
- Built sites for Wynn Casino and other small local businesses.
- Took mockups from Photoshop files and translated the designs into responsive CSS/HTML.

Technical Skills

- Proficient with React, Typescript/JS, Bash/Unix (and Fish Shell!), Python, Node (responsible for all team upgrades and scripting), SCSS/CSS, and Hugo
- Good with CI/CD (Github Actions and Gitlab CI/CD), Webpack, Gulp, Java, Common Lisp, and C++.
- Coursework in Algorithm Engineering, Database Systems, Software Design, Operating Systems, Mobile App Development, Data Structures and Algorithms, Computer Organization and architecture, Discrete Structures, and Intro to Programming I and II.

Capstone Project

- Our team won the Urban Science Sigma Award for having the best overall Capstone experience.
- I was the team lead, coordinating with our sponsors in Chicago and Johannesburg, South Africa.
- As the only developer on the team with web experience, I was tasked with creating a Python Flask API and a Vue dashboard for our Elephant tracking and recognition system.
- Our application supported video image processing and GPS coordinate predictions so that the elephants in South Africa could hopefully one day be tracked without obstructive and expensive tracking equipment.
- See our team page here and our project video here.

Work With Static Site Generators

- I have done almost all of my side projects over the past 4 years with static site generators.
- I have made 3 Hugo themes and 7 sites using Hugo. See this resume as a theme here!. You can also view this resume as a webpage here. You can a portfolio of most of the sites I have made here.
- I started with using Jekyll to make my friend's first blog.
- The next framework I tried was a lightweight framework from Mozilla called Nunjucks. I used this to make my mother's small business site.

Projects

- I made a python script for re-naming and re-dating image files for family photos. They are now all on Google Photos for my Mom, Grandma, and myself to view at any time!
- A friend of mine who is a patent lawyer needs to screenshot every single page of a website for legal reasons. After hearing that he did this manually, I wrote a python script for him to automate the process.
- I wrote a personal repository to store all of my favorite configurations/dotfiles here. My gitconfig is my pride and joy.
- I wrote a medium article/tutorial about my favorite tech stack for small static sites: click here to see the article

Hobbies

- I have a 10 month old portuguese water dog named Gus, so he and I have fun walking while I am taking a break from work. You can see a picture of him here (pro tip: there is a different picture shown as the background for the mobile sized breakpoint).
- Growing up, I was unable to ever experience fresh bakery goods due to the potential cross contamination with nuts. After trying fresh baked bread from a friend's dutch oven in the winter of 2019, bread baking and pizza making has become a new hobby and passion for me.
- I have skied since I was 3 years old. It is especially nice when the east coast weather graces us with snow on top of the perpetual ice.