Tyler Lawson

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Professional 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.
 - We have used React with Typescript accompanied by a shared components library to build our member dashboard and authorbyhumana.com. One site uses Gatsby, the React static site generator. The other is using React with create-react-app.
 - Our tests use Jest with React testing library. We test every component and page that we develop and run them automatically with each new MR.
 - Help build and maintain a .NET/C# API for consuming member insurance information.

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 for my team's 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.
 - Refactored legacy code and created new unit tests in Common Lisp.
 - Researched and demo'd new web frameworks for the web team to adopt (CL-Mustache).
 - Made installers using Inno Setup and Pascal.

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

 - Made sites for Boston area businesses and projects, like the Wynn Casino road construction project.
 - Learned the importance of caring for CSS and reusable components before anything else in web development.
 - Took mockups from Photoshop files and translated the designs into responsive CSS/HTML.

Technical Skills

 - **Frontend:** with React, Typescript/JS, Node, Webpack, Gulp, SCSS/CSS, and Hugo/Static Site Generators.
 - **Backend:** Python, Java, Common Lisp, and C++.
 - **Other:** Bash/Unix (and Fish Shell!) and CI/CD (Github Actions and Gitlab CI/CD)
 - **Coursework:** Algorithm Engineering, Database Systems, Software Design, Operating Systems, Mobile App Development, Data Structures and Algorithms, and Discrete Structures

Education

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

B.S. in Computer Science

Minor in Entrepreneurship and Innovation

Work With Static Site Generators

- I have done most 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 see my portfolio, where I showcase 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.

Side 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 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

Senior Capstone Project

- Our team won the Urban Science Sigma Award for having the best Capstone experience.
- I was the team lead, coordinating with our sponsors in Chicago and Johannesburg, South Africa.
- As the lone developer on the team with web experience, my responsibilities included 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 rangers in South Africa can track their elephants without obstructive or expensive equipment.
- See our team page here and our project video here.