David Welsh

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"Bridging the gap between healthcare providers and the technologists working to improve their patient's lives."

Skills/Qualifications

- 10 years of working with basic web technologies. 7 years of professional experience building cross platform web applications with MERN Stack.
- 7 years of building custom backends/APIs with Node.js/MongoDB/PostgreSQL to build elegant user experiences on the frontend with seamless backend integration.
- 7 years of turning mockups into functioning and scalable applications.
- 5 years of AWS experience
- Experience with the integration of Technology and Healthcare professional ecosystems.

Tech Stack/Skills

<u>Frontend</u>: ReactJs, HTML/(S)CSS, TypeScript, Vanilla.js, proficient with Vue.js

<u>Backend/Data</u>: Node.js, Express.js, Redux for state management

<u>Databases/Deployment:</u> AWS, Docker, Firebase, Kubernetes, MongoDB, MySQL

<u>Data Analysis:</u> Jupyter, NumPy, Pandas, D3.Js, Chart.Js

Work Experience

Career Break | Healthcare

December '20- Sept '22

Because of the slowdown in business that came as a result of the Covid-19 pandemic, and a general sense that I was not satisfied with the direction of my technology career, I decided to take some time to focus on changing directions into healthcare.

- Obtained my PCT license and worked in a variety of clinical and acute care settings.
- Took time to ask about and understand how technology influences the clinical setting and patient outcomes.
- Gained an understanding of my own specific niche as someone with a background in both technology and healthcare.

Grant Place Designs: Full Stack Developer

Jan '19 – Dec '20

Helped a variety of small business reach their online potential through site redesigns, and SEO optimization.

- Consulted on a variety of projects that involved working with ReactJs
- Worked with a variety of small businesses to help them realize their full online potential.
- Worked on improving the SEO strategies of various small/niche businesses.
- Built a handful of prototype applications for friends to show to their companies.

Fair Lumber Co | Web Developer/Digital Manager

Nov '15 – Dec '18

Designed, built, and maintained the website for Fair Lumber Co.

- Built the company's website from scratch
  - A very basic MERN site.
- Managed the firm's, admittedly limited, online presence.
- Worked 1:1 with the company's owner to ensure that the digital presence was in line with his vision of the company.

Miscellaneous

Technology Consultant

2015 – Present

A variety of odd projects and advisory roles that have occurred over the years.

- Numerous built to scale applications for clients.
  - Designed to be used as functioning prototypes that could show shareholders.
  - Wrote thorough documentation to ensure that should I not be brought on to develop the projects, another developer could seamlessly takeover.
  - Enforced a "backend first, databases second, frontend last" development approach that I'd developed during the Mypalate Project.
- Mypalate: A full stack cross platform (Apple, Android, Desktop) application.
  - IONIC framework for the frontend, MongoDB/Express.js for the backend.
  - Built and launched the application between May - Jul'15 and maintained it for a year.
- Advising friends on the technology strategies of their own companies.
  - Served as a technology liaison between business leaders, subject matter experts (psychologists, physicians, etc.)
- Basic data analysis for academic projects.

Education

Michigan State University, Class of 2017

BS in Environmental Studies, Minor in Computer Science

Northwestern University, ongoing

Post-Baccalaureate Coursework in Life Sciences