

David Welsh

(248)-672-1219

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Education

Master of Computer Science

Clemson University, Remote

December 2026

GPA: 3.50/4.00

Bachelor of Environmental Science

Michigan State University, East Lansing

December 2017

GPA 3.11/4.00

Relevant Coursework

CPSC 8740 – Software Design Development

- Built multiple applications and user interfaces including a sample charting software and a Netflix style movie recommendation application.
- I learned to build eye catching, easy to use applications that have seamless user flows, and are accessible to anyone.

CPSC 8400 – Design and Analysis of Algorithms

- Learned the fundamentals of algorithm design and analysis
- Coded heavily in vanilla Python, and learned how to develop functions that mirrored the functionality of libraries such as NumPy and Pandas

Technical Skills

Languages: JavaScript (React and Vue), TypeScript, Python, HTML/CSS/SCSS, Java, C#, Go

Databases: GraphQL, MySQL, SQL, MongoDB, Supabase

Version Control: GitHub, GitLab, Docker/Kubernetes

Distribution: AWS, Vercel

Miscellaneous: Tailwind

Technical Certifications

AWS Cloud Developer Practitioner

AWS AI Practitioner

Recent Projects

Movie Recommendation System

March 2025 – Ongoing

- Built out with VueJs, and Supabase AI tools

Financial Tracking Application

January 2025 – February 2025

- A personal project to gain a mastery over the Nuxt Framework for VueJs.
- Incorporated ChartJs into the design in order to make it easier to visualize the data.

Professional Experience

Northwestern Michigan College School of Nursing: Technology Advisor – Volunteer

April 2025 - Present

- I'm working with the director of the nursing program to incorporate AI education into the nursing student's curriculum.

Munson Medical Center: Nursing Assistant and Student Nurse

July 2023 – March 2025

- I provided high quality patient care to patients in a variety of settings, while primarily being based in the Oncology and Behavioral Health Units.
- Performed various nursing tasks under the guidance of the nurses upon admission to nursing school.
- I assisted with helping staff members figure out how to navigate the EMR system when they were encountering issues with the software.
- Learned how to adapt to and manage a variety of difficult situations on the fly and mastered being calm under pressure.
- Stayed up to date with the latest technology trends, mastering Next and Nuxt JS in this time.
- I took coursework in C#, SQL, and other backend technologies to prepare for graduate school.

Advocate Masonic Medical Center: Nursing Tech

April 2022 – December 2022

- I floated throughout the hospital and learned how to work in multidisciplinary teams in order to ensure optimized patient outcomes.
- Assisted staff members during critical situations and learned to maintain a professional attitude under pressure.

Northwestern Memorial Hospital: Volunteer

July 2021 – April 2022

- Welcomed people to the hospital and helped them to find various patient rooms and specialty services.
- Assisted in enforcing the hospital's covid-19 visitor policies.
- Mediated a variety of situations where tensions had heightened to an unhealthy level.

Grant Place Designs: Owner and Fullstack Developer

January 2018 – April 2022

- Worked with a variety of small business owners to figure out the digital needs of their businesses.
- Built websites and applications to meet the technical needs of my clients, with a focus on the React applications.
- I began to focus on building projects that were inclusive to people with disabilities and took their needs into consideration.

Student Startup: Developer

January 2016 – December 2017

- Built the Mypalate Mobile Application with React Native/Expo and grew it to 2250 monthly active users.
- Helped to build an application to help the student run organic farm distribute leftover produce to students at Michigan State University.

Fair Lumber Company

Web Developer

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June 2012 – January 2018

- I worked one on one with the firm's owner to build and maintain their website.