

# Caleb Whittaker

## Web Developer

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## About Me

From the first “Hello World” program that I wrote back in college, I knew that I had found a new passion. When I branched out and discovered web development, it almost felt magical to write lines of code that I could visualize and proudly show my friends and family. In my free time, I build projects that excite me and learn new skills and technologies that will help me become a better programmer in the future.

## Technical Projects

### Portfolio Website

<https://github.com/Calebmwhittaker/Portfolio>

- Incorporated the Google Maps API with restricted keys
- Built a React application and deployed on Vercel

### Chores List Web App

<https://github.com/Calebmwhittaker/Chores-List>

- Developed a full-stack web application with user authentication using JWT
- Utilized a MongoDB database to store user and chore information
- Managed state of application with Redux Toolkit

### Countries Search Engine

<https://github.com/Calebmwhittaker/Countries-API-Project>

- Built initially with vanilla JavaScript and rebuilt with React
- Implemented a third-party API and displayed data visually
- Filtered countries from a search bar that takes in a user input

### Digital Marketing Website

<https://github.com/Calebmwhittaker/MADDMarketing-Solutions>

- Built application with React using modern folder structure and best practices
- Utilized React Router to navigate through multiple pages from a navigation bar
- Formatted website with responsive design in mind using Bootstrap

## Education

### Bachelor of Science in Biochemistry

*Saginaw Valley State University*

Summa Cum Laude

## Skills

HTML | CSS | JavaScript |  
React | SQL | NodeJS |  
MongoDB | Bootstrap |  
Python

## Certifications

### Introduction to CSS:

*University of Michigan*

### Interactivity with JavaScript:

*University of Michigan*

### Advanced Styling with Responsive Design:

*University of Michigan*

### Getting Started with Python:

*University of Michigan*

### Python Data Structures:

*University of Michigan*

May 2022

University Center, MI

Caleb Whittaker

## Work Experience

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### Lab Technician Intern

February 2023 - Present

*Gougeon Brothers Inc*

Bay City, MI

- Responsible for testing a new method of quality control on samples that saved money for the company
- Calculated new limits for samples that will ensure the validity of future products
- Operated a differential scanning calorimeter to determine glass transition states of samples
- Organized three-years' worth of samples to increase productivity of all technicians in the lab

### Lab Tech Associate

May 2022 – January 2023

*University of Michigan*

Ann Arbor, MI

- Responsible for establishing new genetics stocks for lab members to use for future experiments
- Performed lifespan experiments that produced data to elucidate mechanisms involved in aging
- Maintained stocks for lifespan and imaging experiments
- Analyzed data from lifespans and genetic crosses to plan new experiments

### Lab Technician II

April 2021 – May 2022

*Saginaw Valley State University*

University Center, MI

- Contributed to optimization of ddPCR assays for detection of SARS-CoV-2 in wastewater
- Performed specialized ddPCR assays with proper aseptic techniques to generate time-sensitive results
- Successfully detected COVID-19 outbreak on SVSU campus from wastewater
- Communicated results from microbial source tracking to local health departments
- Trained technicians in the use of laboratory equipment to perform RT-ddPCR and qPCR assays

### Lab Technician I

April 2020 - April 2021

*Saginaw Valley State University*

University Center, MI

- Notified local health departments of significant qPCR results which led to beach closures
- Sampled various locations around the Saginaw Bay Watershed in order to perform various PCR analyses
- Performed qPCR assays from a validated SOP for rapid testing of beach water
- Responsible for coordinating and receiving samples from wastewater treatment plants for SARS-CoV-2 pilot study

## Honors/Awards

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Recipient, Robert & Ellen Thompson Scholarship

August 2018 – May 2022

- Received scholarship for \$5000 a year based on outstanding academics and work ethic

Recipient, Founder's Scholarship

August 2018 – May 2022

- Received scholarship for \$5000 a year for outstanding academics

Recipient, Great Lakes Bay Regional Youth Leadership Institute Scholarship

August 2018 – May 2019

- Received scholarship for \$1500 for an active and impactful role in the GLBRYLI program

Recipient, Outstanding Biochemistry Student

May 2022

- Received award for outstanding academic achievement in the biochemistry program