

Ryan Carpus

Web Developer

Portfolio: <https://ryancarpus.com/>
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Location: Ann Arbor, Michigan

Programming Tools

- JavaScript
 - React.JS
 - Next.JS
 - Express.JS
 - React Native
 - Node.JS
- Python
 - Numpy
 - Pandas
- Databases
 - MongoDB
 - SQL
 - Firebase
- PWA (Progressive Web Apps)
- Headless Content Management Services
 - Contentful
- Twilio
- Google Analytics 4

Education

CareerFoundry, FullStack Immersion,
February 2022

Intensive full-stack project-based web development training program using the MERN stack (Mongo, Express, React, Node)

University of Michigan

Master of Science in Engineering in
Civil and Environmental
Engineering, December 2017

Bachelor of Science in Engineering
in Civil and Environmental
Engineering, December 2016

Professional Experience

Web Applications Developer, Michigan Medicine, Ann Arbor,
Michigan, 3/2022—Now

- Migrated an existing website, mct2d.org, for a CQI group from SquareSpace to Netlify using Next.JS framework with Contentful as a headless CMS, improving mobile responsiveness, reducing page load times, adding additional functionality, and streamlining the workflow for content authors.
- Designed, developed, and deployed an automated reporting system to generate and deliver Twilio messaging and Google analytics reports to stakeholders on a weekly basis, providing new business insights and eliminating the need to manually create reports.
- Designed new web-based tools in collaboration with doctors and graphic designers using Next.JS and Contentful, enabling doctors and patients to easily share tobacco cessation resources via web, text, or email.

Staff geotechnical engineer, G2 Consulting Group, Ann Arbor,
Michigan, 1/2018-10/2021

- Redesigned large portions of the quality system to improve equipment and training documentation and procedures, making lab equipment easier and cheaper to maintain, allowing employees to learn new skills more efficiently and faster, and bringing the lab into compliance with the AASHTO re:source accreditation requirements.

Personal Projects

NAVFAC Deep Foundations, 2/2022, sole contributor

rcarpus.github.io/case-studies/navfac.html

- Full stack engineering design application that performs axial capacity analysis for a suite of deep foundations, immensely accelerating design workflow
- Create and manage accounts and save projects using a custom API
- Generate printable calculation reports that can be included in project deliverables

Supersonic Ear Training, 1/2022-2/2022, sole contributor

rcarpus.github.io/case-studies/supersonic.html

- Full stack practice tool enabling musicians to practice hearing if notes are in tune or out of tune
- Save user stats using a custom API and display aggregate statistics to gain insights into overall training progress