

Ryan Carpus

Web Developer

Web developer with a background in civil engineering consulting. Skilled at quickly learning new technologies to adapt to client needs, solve unique problems, and deliver projects on-budget and on-time. Skilled with JavaScript using React and React Native.

Portfolio: <https://rcarpus.github.io/>

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Location: Ann Arbor, Michigan

Professional skills

- Communicating clearly with client about project needs and expectations
- Researching new technologies to solve unique client problems
- Accurate project budget estimation
- Coordinating project tasks between multiple subcontractors
- Mentoring new employees/teaching job skills

Programming Tools

- JavaScript
 - React.JS
 - Express.JS
 - React Native
 - Node.JS
- Python
 - Numpy
 - Pandas
- Databases
 - MongoDB
 - SQL
 - Firebase
- PWA (Progressive Web Apps)
- AWS Lambda

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

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

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.
- Wrote a Python script to write QC proposals in Word using a config file and Excel table to adjust project-specific details, reducing errors introduced from carelessly copy-pasting relevant content from old proposals and cutting the cost of proposal-writing by 25%.