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 node.JS and React.

Portfolio: https://rcarpus.github.io/
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Email: ryancarpus@gmail.com
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
  - Express
  - React
  - React Native
  - Node
- Python
- Databases
  - Mongo
  - SQL
  - Firebase
- PWA (Progressive Web Apps)
- AWS Lambda

Education

CareerFoundry, FullStack Immersion, February 2021

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

- Built an API from scratch using Express and Mongo to create, read, update, and delete user data with a client-side web application
- Designed a client-side web application to display information about movies, director, and genres, using my API to allow users to maintain a list of favorite movies and update their user data
- Created a Progressive Web Application using AWS Lambda serverless computing and Google OAuth that fetches data about upcoming tech events from a Google Calendar to display to the user

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

- Built a design template in Excel for deep foundation design that is simple to use for engineers who don't know advanced Excel features, dramatically reducing design time, increasing accuracy, and increasing design choices for deep foundations of electrical substations.
- 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%.