

Ryan Carpus

Full Stack Developer

Portfolio: <https://ryancarpus.com/>

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Location: Ann Arbor, Michigan

Programming Tools

- JavaScript
 - React.JS
 - Next.JS
 - Express.JS
 - Node.JS
 - JQuery
- Python
 - Django
 - Numpy
 - Pandas
 - Flask
- Databases/Storage
 - MongoDB
 - SQL
 - AWS S3
- Content Management Services
 - WordPress
 - Contentful
- Twilio
- Google Analytics 4
- Google Tag Manager
- Cloud Deployment Platforms
 - Heroku
 - Netlify

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

- Designed, built, deployed, and supported a new administrative task system using Python with Django using a PostgreSQL database, AWS S3 buckets, and Google SMTP email backend that administers and tracks value-based-reimbursement tasks for over 1000 physicians.
- Collaborated with stakeholders at all levels to deeply understand business needs and translate into project requirements, holding regular meetings to review progress and prioritize feature requests.
- Provided continuous delivery of new features with automated deployment to Platform as a Service (PaaS) providers Netlify and Heroku, with multiple deployments per week.
- Migrated an existing website 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 API 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.
- Built out interactive, mobile friendly web pages using JavaScript with React based on Figma designs provided by the design team.
- Developed a data processing pipeline using Python with Pandas to clean and restructure JSON data collected from a 3rd party API and import into a SQL database with over 100 tables.

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

- Conducted geotechnical investigations, analysis, and evaluations for various infrastructure projects including buildings, bridges, and roads.
- Prepared geotechnical reports and recommendations for design and construction.
- Collaborated with clients, contractors, and other project stakeholders to ensure project objectives were met on time and within budget.
- Mentored and trained junior engineers in geotechnical engineering principles and practices.