

# Ryan Carpus

## Full Stack Developer

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

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Location: Ann Arbor, Michigan

## Programming Tools

- JavaScript
  - React.JS
  - Express.JS
  - JQuery
  - Next.JS
  - Node.JS
  - Vue.JS
- Python
  - Django
  - Pandas
  - Numpy
  - Flask
- Databases/Storage
  - MongoDB
  - AWS S3
  - SQL
  - ElasticSearch
- Content Management Services
  - WordPress
  - Contentful
- Git
- Twilio
- Google Analytics 4
- 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

Software Developer Senior, 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 3<sup>rd</sup> 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.