
TECHNICAL SKILLS

Languages: JavaScript, Python3, Bash, Go, HTML/CSS, SQL, MongoDBQL

Libraries/Frameworks: Node.js, React.js, Next.js, Express.js, Vue.js, Pygame, PyTorch

Tools & Platforms: Git, Shell, AWS, Netlify, Twilio, Strapi, Heroku, Docker, Nginx

Management + Design: Azure DevOps, Figma, Whimsical, Trello, Jira

PROFESSIONAL EXPERIENCE

Digital Infuzion

Software Engineer

Remote

Dec 2022 – Present

- **FluHub:** Overview: Engineered and deployed a new website for the NIH. Actions: (1) Built the entire front end using Next.js and MUI (2) Created infrastructure-as-code templates for compute, database, and storage resources and performed all deployments (3) Wrote Dockerfiles for the ECS containers using a multi-stage approach to optimize caching (4) Created Azure CI/CD pipelines (5) Built a Node.js utility that accepts runtime options and utilizes built-in process and file system modules to dynamically spawn a child process set with the correct environment variables (6) Configured Strapi back end

Competitive Solutions

Software Engineer

Remote

April 2021 – Dec 2022

- **Nano ID:** Requirement: Provide shorter IDs on the user interface than the 26 character MongoDB default Actions: (1) Researched libraries (2) imported nanoid library on the back end and added a function to automatically generate nanoids for new data (3) Wrote a Node.js script to add nanoids to existing data (4) updated Express.js API functions to send IDs with the rest of the payload (5) modified React.js components to display them on the UI
- **Document Upload:** Requirement: Add a feature so users can upload documents, provide information about the upload, and optionally notify other qualified users by email with priority level in the subject and their message in the body Actions: (1) Created S3 bucket to store documents (2) Built Express.js routes to handle requests from the front end, process, and store data. (3) Built a React.js component to retrieve the file from the user's local machine, store it in memory, fetch a pre-signed AWS S3 upload URL and perform the upload (4) Created React.js components for the rest of the UI (5) Wrote JavaScript logic to filter through users and select qualified potential email recipients (6) Made an email template that accepts JavaScript variables (7) Integrated AWS SES into one of the Express.js route handlers to send emails if that option was selected
- **Data Sharing with Partner Organization:** Built Lambda functions and S3 buckets to exchange data

Project Manager

March 2019 – April 2021

- Collaborated with engineers and stakeholders to ensure business goals translated into useful product features and effective outcomes
- Defined user stories, created mockups, wireframes, sketches, and storyboards to aid development.

PERSONAL PROJECTS

mikebarberry.com Next.js/Three.js | show-quote-generator.netlify.app JavaScript/Node.js
gotaskerweb.netlify.app Vue.js/Go | wishlists.link React.js/Node.js

EDUCATION

Flatiron School **Bootcamp:** Software Engineering

2021

University College London **MA:** Philosophy

2016

Indiana University Bloomington **BA:** Neuroscience

2015