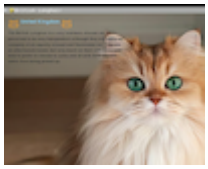
Mike Barberry

www.mikebarberry.com (928) 202-5844 mbarberry15@gmail.com

TECH SKILLS

- AWS: ECS, Lambda, S3, SAM, etc.*
- Azure DevOps
- Babel
- Bash
- Django
- Docker*
- Express.js
- Figma
- Gatsby
- Git
- Go*
- HTML
- JavaScript*
- Jest
- Jira
- Material UI
- Mocha.js
- MongoDB QL
- Next.js*
- Node.js*
- Numpy
- Pandas
- Puppeteer
- Python*
- Rails
- React.js*
- Redux
- Ruby
- SQL
- TailwindCSS
- TypeScript
- Three.js
- Unix / Linux
- Webpack

PERSONAL PROJECTS



CatFacts
Built with: Python, React.js

MikeBarberryDotCom

Built with: Next.js, AWS

EXPERIENCE

Mike Barberry LLC Hybrid
Founder & Engineer Oct 2023 – Present

- **Email Marketing Program:** *Requirement:* Create a software program to run an email marketing campaign. *Actions:* (1) Researched and identified implementation strategies. (2) Wrote JavaScript code to interact with Google APIs and obtain data about all companies listed on Google within 30 miles of any given latitude and longitude. (3) Created a Node.js Puppeteer program to visit company websites and find email addresses. (4) Built a backend system to make custom emails with React.js, transpile them with Babel, and finally send them using Node.js and AWS SES.
- **Oregon Coast Client:** *Requirement:* Ensure all 15 security cameras are constantly recording live footage and storing 90 days of video on a local NAS storage drive. *Actions:* (1) Cleaned NAS storage drives. (2) Re-enabled VideoInsight camera recordings. (3) Troubleshot videos not saving to the drive due to file path and permissions issues. (4) Created new users on the local server. (5) Built a software tool with Node.js and Puppeteer to help build the brand and promote partner businesses.
- **Nutrition Tracking Application:** *Requirement:* Build an application that supports analyzing text from uploaded pictures of supplement bottles and managing related data. *Actions:* (1) Built a AWS Lambda Python function that receives a base64 string representing image data and engages with the AWS Rekognition API to obtain text data. (2) Created a Python function that integrates with OpenAI APIs to perform NLP and return the supplement ingredients and amounts. (3) Provisioned a MongoDB database to store user data. (4) Engineered a React.js frontend where users can upload images and interact with their data. (5) Wrote CloudFormation deployment templates.

Digital Infuzion Remote
Software Engineer Dec 2022 – Oct 2023

- **Flu Hub:** *Requirement:* Build a new National Institutes of Health (NIH) website based on mockups. *Actions:* (1) Created the entire Next.js / React.js frontend; including integrating Material UI, implementing a mobile-first responsive design, and building every page. (2) Built the backend with Strapi.js, a headless content management system, to add, edit and store static content. (3) Engineered infrastructure-as-code templates for the entire cloud configuration encompassing S3 buckets, IAM permissions, ECR repositories, databases, and ECS instances. (4) Iterated on initial versions based on stakeholder feedback and code reviews.
- **Data Visualizations:** *Requirement:* Create websites stakeholders can visit that display insights from provided NIH data. *Actions:* (1) Built a website featuring a parallel coordinates chart based on unsanitized data files that were cleaned with Node.js and displayed with React.js and HiPlot. (2) Created a website hosted on S3 that displays NIH data after performing NLP with Python and creating Plotly scatterplots.

Competitive Solutions Remote
Software Engineer April 2021 – Dec 2022

- **Document Upload:** *Requirement:* Add a feature to allow admin to attach documents to regular user data. *Actions:* (1) Created AWS S3 infrastructure to store files. (2) Built Express.js API to receive data and perform S3 uploads. (3) Developed React components to handle uploading files. (4) Engineered additional business logic to store document metadata and send emails.
- **Data Sharing with Partner:** Built Lambda functions and S3 buckets to exchange data.

Product Manager March 2019 – April 2021

- Collaborated with engineers and stakeholders to ensure business goals translated into useful product features and effective outcomes.

EDUCATION

Flatiron School, **Bootcamp:** Software Engineering 2019
University College London (UCL), **MA:** Philosophy 2016
Indiana University–Bloomington**, BA:** Psychology with Neuroscience Certificate 2015