Mike Barberry

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PROFESSIONAL EXPERIENCE

Mike Barberry LLC

Remote, CT

Software Engineer

Oct 2023 – Present

- Created a custom email marketing program using Google APIs, Puppeteer, React.js, Node.js and AWS.
- Rebuilt NAS storage, surveillance system and network configuration for local cannabis company client.
- Built a new supplement tracker web application that utilizes AWK Rekognition, Python3, AI / ML, React.js, and Node.is.

Digital Infuzion

Remote, OR

Software Engineer

Dec 2022 - Oct 2023

- Flu Hub: Requirement: Build a new NIH public website in four months that provides an informational resource portal for influenza researchers. Actions: (1) Created 8 pages utilizing React and Next.js with MUI. (2) Built and controlled flow of data from Strapi.js (headless CMS) API backend and client app. (3) Wrote Dockerfiles and CloudFormation SAM templates for deployments. (4) Engineered reactive, styled components responsive to user input. (5) Built AG Grid data table page and filtering logic.
- Natural Language Processing: Requirement: Create 3D scatter plots from Excel file data after performing NLP. Actions: (1) Read input from columns and vectorized data using bag-of-words and TF-IDF. (2) Performed reduction on vectors utilizing Scikit Learn PCI and UMAP. (3) Created plots and S3 website from HTML output.
- Automation: Requirement: Determine how to implement contractually obligated assessment. Actions: (1) Evaluated resource and monetary costs of previous implementation. (2) Designed a software program to automate collecting information pertinent to the assessment and generate a report. (3) Implemented design utilizing Node.is, Puppeteer, ANDI, and PDFKit. (4) Assisted team members consuming output.
- Parallel Coordinates Visualization: Requirement: Build a parallel coordinates graph from data in 3 CSV files. Actions: (1) Cleaned, processed, and combined data. (2) Researched HiPlot and built a React website to load and display the data as an interactive parallel coordinates graph. (3) Deployed to S3 for stakeholder engagement.

Competitive Solutions

Remote, OR

Software Engineer / Product Manager

Mar 2019 – 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 integrated it. (3) Wrote a Node.js script to add nanoids to existing data. (4) Updated API and React components.
- **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 is 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.

TECHNICAL SKILLS

Languages: JavaScript, Python3, Go, Bash, HTML/CSS, SQL, MongoDB QL

Libraries/Frameworks: Node.js, React.js, Next.js, Plotly, Pandas, NumPy, Scikit Learn, Express.js, TypeScript Tools & Platforms: Git, Unix/Linux, Nginx, Netlify, Docker, AWS (Lambda, S3, EC2, CloudFormation, SAM, etc.)

PERSONAL PROJECTS

www.mikebarberry.com: Next / Node JS GoTasker: Go CatFacts: Python3 Quote Generator: JavaScript

EDUCATION

Flatiron School (New York City), Bootcamp: Software Engineering 2021 UCL (London, UK), MA: Philosophy 2016

Indiana University (Bloomington, Indiana), BA: Neuroscience 2015