Mark Vincent Go

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EXPERIENCE

IBM | Application/Full Stack Developer - Modernization Team | Sacramento, CA   May 2020 - Present
- Developed full stack modernization of Medi-Cal provider web application to completely virtualize management process.
- Created user interface with React, building reusable UI components to be used across application flow.
- Designed ReST APIs in specialized microservices to handle specific roles like security, data handling, and emailing users.
- Implemented GraphQL to interface front and back-ends and handle user registration and authentication.
- Documented details for ReST API endpoints that were implemented into microservices using Swagger UI.
- Created comprehensive testing suites with React Testing Library, Jest, and Newman (Postman) for endpoint testing.
- Utilized Red Hat OpenShift to prototype microservices and to deploy to cloud in Jenkins CI pipeline.

PROJECTS

BeanStock | Stock Market Tracker Application | Full-Stack Software Engineer   Aug 2020
TypeScript, React, Python, Django, GraphQL, MySQL
Source: github.com/MarkVincentGo/BeanStock
- Designed stock-market tracker that calculates fair purchase prices for stocks based on Python data analysis.
- Created web scraper in Python to gather key information from analytics platforms in Yahoo, Wall Street Journal, and MSN.
- Employed polling schedule to pull information from Finnhub API and web scraper daily and update stock data in database.
- Utilized GraphQL to pull data from back-end in predictable format and improve load times by implementing pagination.

VLANG | Graphical Programming Language | Full-Stack Software Engineer   Jun 2020
TypeScript/Javascript, React, D3, Golang, MongoDB
Source: github.com/MarkVincentGo/VisLang
- Designed graphical language, integrating constructs such as loops, conditionals, and variable storage.
- Developed interpreter in Javascript, utilizing patterns from particular algorithms to determine an order of evaluation.
- Incorporated D3 for drag-and-drop logic. Preserved positioning for all graphical components across different sessions.
- Built Golang backend primarily to store user-saved programs into MongoDB database.

Eat Ladle | Food Subscription Application for COVID-19 | iOS Developer   Apr 2020
React-Native, Express.js, Xcode, Google Firebase Database & Authentication
Source: github.com/ReactWare/EatLadleApp
- Developed mobile app to support local restaurants by offering subscription services for their products.
- Utilized React Native Navigation to design customer navigation according to logical flow of business data.
- Integrated credit card transaction feature at checkout using the Stripe API.
- Implemented text-message authentication from Firebase, authorizing restaurant owners to change their data

Bon-App-Etit | Restaurant Reservation Service | Full-Stack Software Engineer   Feb 2020
Node.js, AWS EC2, Docker, PostgreSQL, Redis, NGINX
Source: github.com/MarkVincentGo/reservation-service
- Optimized backend of 80 million data points to handle 10,000 client queries per second with less than 1% error.
- Horizontally scaled Node server behind NGINX load balancer and pooled server connections to single database.
- Utilized Docker containers for consistent and rapid deployment across multiple AWS EC2 instances.
- Built with service-oriented architecture in mind, utilizing reverse proxy to connect each microservice ReST API.

EDUCATION

Hack Reactor   Dec 2019 - Mar 2020
Full-Stack Software Engineering

University of California, Irvine   Sep 2015 - Jun 2019
B.S. Biomedical Engineering   GPA: 3.8/4.0
Awards: *magna cum laude*, Dean's List, Campus-wide Honors, Travis Credit Union Mary Keith Duff Scholarship

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TECHNICAL SKILLS

Programming Languages: Javascript/Typescript/Node.js, Python, Golang, HTML, CSS/SCSS, MATLAB
Front-End Frameworks: React, React Native, Redux, Vue, D3, jQuery
Back-End Frameworks & DBMS: Express.js, Django, GraphQL, PostgreSQL, MySQL, MongoDB, Google Firebase
Tools: Git, Docker, AWS EC2, AWS S3, Red Hat OpenShift, NGINX, Postman, Jest, React Testing Library, Xcode