

Mark Vincent Go

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TECHNICAL SKILLS

Programming Languages: Javascript/Node.js, Python, Java, MATLAB, HTML, CSS/SCSS

Front-End Frameworks: React, React Native, Redux, Vue, D3, jQuery

Back-End Frameworks and Database Systems: Express.js, Django, PostgreSQL, MySQL, MongoDB, Google Firebase

Tools: Github, Docker, AWS EC2, AWS S3, NGINX, Jest/Enzyme, Xcode, Photoshop, Trello, CircleCI

EDUCATION

Hack Reactor

Dec 2019 - Mar 2020

Full-Stack Software Engineering

Relevant Material: Web Development, Test Driven Development, Agile Methodologies

University of California, Irvine

Sep 2015 - Jun 2019

B.S. Biomedical Engineering

GPA: 3.8/4.0

Relevant Courses: Data Acquisition/Processing, Signals & Systems, Calculus, Linear Algebra

Awards: *magna cum laude*, Dean's List, Campuswide Honors

PROJECTS

Eat Ladle | Food Subscription Application for COVID-19 | iOS Developer

Apr 2020

React, React-Native, Google Firebase Database & Authentication

Source: github.com/ReactWare/EatLadleApp

- Created logical, navigated flow of restaurant business data in app UI, helping users to decide products to purchase.
- Improved customer payment experience by integrating credit card transaction feature at checkout with Stripe API.
- Implemented quick and simple text-message authentication for authorized users using Google Firebase.

What2Cook | Recipe Generator Application | Full-Stack Software Engineer

Mar 2020

Vue, Node.js, Express.js, MongoDB

Source: github.com/MarkVincentGo/What2Cook

- Designed search algorithm to match user ingredients input with recipe keywords from the Edamam API.
- Developed RESTful API to perform read & write operations to MongoDB.
- Leveraged scoped styling and virtual DOM utilization in Vue to create reactive and dynamic User Interface.

Bon-App-Etit | Restaurant Reservation Service | Back-End Software Engineer

Feb 2020

Node.js, AWS EC2, Docker, PostgreSQL, Redis, NGINX, loader.io

Source: github.com/MarkVincentGo/reservation-service

- Optimized back-end architecture to handle 10,000 requests/sec with <1% error using horizontal scaling, database connection pooling, and identifying system bottlenecks through New Relic.
- Ensured comprehensive & secure ReST-API routes by implementing reverse proxy server & service-oriented architecture.
- Incorporated 80 million data points of business data into PostgreSQL database, optimizing latency to <3ms per query.

Big Tuna | House Tour Scheduling Application | Front-End Software Engineer

Jan 2020

React, Node.js, Docker, AWS EC2 + S3, MySQL, Jest, CircleCI

Source: github.com/MarkVincentGo/Bluefin-Service-ScheduleTour

- Utilized React API to build a calendar component with stateful scrolling functionality and interaction to Node.js back-end.
- Assured code quality by asserting >80% Jest/Enzyme test coverage.
- Improved Google PageSpeed score from 47 to 97 by compressing Webpack bundle and serving static assets on AWS S3.

EXPERIENCE

Velox Biosystems | R&D Intern - Technician | Irvine, CA

Oct 2017 - Jun 2019

- Assisted in design of product for rapid detection of MRSA bacteria strain which causes fatal hospital infections.
- Created silicon wafer molds at micron-level resolution for microfluidic devices utilizing photo- and soft lithography.
- Executed experiments concerning isolation of target bacteria using dielectrophoresis and fluorescence imaging.

LEADERSHIP

Board Member for Cultural Stage Production | 2019

Cultural Organization Academic Lead | 2018 - 2019

Academic Mentor | 2017 - 2019

UC Irvine Honors Mentor | 2017