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   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   **Academic Mentor** | 2017 - 2019
Cultural Organization Academic Lead | 2018 - 2019   **UC Irvine Honors Mentor** | 2017