

Mark Vincent Go

CONTACT

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TECHNICAL SKILLS

Front-End: React, Redux, Vue.js, React Native, Javascript, HTML, CSS, jQuery, Webpack, Babel, D3

Back-End: Node.js, Express.js, MySQL, PostgreSQL, MongoDB, Cassandra, Docker, NGINX, Authentication systems, AWS EC2 + S3

Other: Git/Github, Agile, Jest/Enzyme, Photoshop, Trello, Test-Driven Development, CircleCI, MATLAB, LABVIEW, SOLIDWORKS, New Relic, Loader.io, K6.io, Artillery.io

EDUCATION

UC Irvine

Sep 2015 - Jun 2019

GPA: 3.8/4.0

B.S. Biomedical Engineering

Hack Reactor

Dec 2019 - Mar 2020

Advanced Full-Stack Software Engineering Immersive

AWARDS

magna cum laude

Campuswide Honors

Dean's List

INTERESTS

Artificial Intelligence, Web Development, Video Games, Bioengineering, Stock Market, Guitar, Basketball, Baseball

PROJECTS

bon-App-etit | Food Reservation Service | *Software Engineer*

Node.js, Docker, PostgreSQL, Redis, NGINX, New Relic, Loader.io

- 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 for service by implementing reverse proxy server & service-oriented architecture.
- Incorporated 80 million data points of transactional business data into PostgreSQL database, optimizing latency to <3ms per query.

Bluefin | House Tour Scheduling Application | *Software Engineer*

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

- Utilized intuitive 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 compression of Webpack bundles and serving static assets on Amazon S3.

What2Cook | Recipe Generator Application | *Software Engineer*

Vue.js, Node.js, Express.js, MongoDB

- 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, virtual DOM utilization, and lifecycle methods in Vue.js to create reactive and dynamic User Interface.

MethylAge | DNA Analysis Service | *Biomedical Design Engineer*

- Designed microfluidic chip in AutoCAD for optimization of DNA test assay time by 80%.
- Analyzed potential targets for DNA restriction enzyme digest and methylation detection using the UCSC Genome Browser.
- Developed a transportable bio-sample collection apparatus in SOLIDWORKS to prevent protein denaturation.

EXPERIENCE

Velox Biosystems | *R&D Intern - Technician* | Oct 2017 - Jun 2019

- Assisted scientists in designing a product to rapidly detect the MRSA bacteria strain which causes fatal hospital infections.
- Created silicon wafer molds at a micron-level resolution for microfluidic devices utilizing photo- and soft lithography.
- Executed experiments concerning effective 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