

# Mark Vincent Go

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## EXPERIENCE

- **IBM** | Software Engineer | Sacramento, CA 📅 May 2020 - Present
    - Developed applications for Medi-Cal to migrate the account management process to the cloud.
    - Collaborated closely with security architecture and UX design teams to meet feature specifications.
    - Built user interfaces with React, focusing on reusable components to be used across applications.
    - Developed microservice architecture and documented all ReST API endpoints with SwaggerUI.
    - Created comprehensive testing suites with React Testing Library, Jest, and Newman.
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## PROJECTS

- **BeanStock** | Stock Market Tracker Application 📅 Jul 2020 - Aug 2020  
**TypeScript, React, Python, Django, GraphQL, MySQL**  
Source: [github.com/MarkVincentGo/BeanStock](https://github.com/MarkVincentGo/BeanStock)
    - Created a market tracker that utilizes Python programs to calculate stock purchase prices.
    - Developed a web scraper to gather data from Yahoo, Wall Street Journal, and MSN analytics platforms.
    - Employed scheduler to poll information from Finnhub API and web scraper for updating app database.
    - Utilized GraphQL to predictably pull data from back-end and implemented pagination to improve load time.
  - **VLANG** | Graphical Programming Interface 📅 May 2020 - Jun 2020  
**TypeScript/Javascript, React, D3, Golang, MongoDB**  
Source: [github.com/MarkVincentGo/VisLang](https://github.com/MarkVincentGo/VisLang)
    - Designed graphical language with constructs such as arithmetic operations, loops, and variables.
    - Developed interpreter in Javascript and utilized particular algorithms to determine the order of evaluation.
    - Implemented reusable drag-and-drop logic in components with React and native Javascript.
    - Built Golang backend to store user-saved programs and preserve positioning across sessions.
  - **Bon-App-Etit** | Restaurant Reservation Service 📅 Jan 2020 - Feb 2020  
**Node.js, AWS EC2, Docker, PostgreSQL, Redis, NGINX**  
Source: [github.com/MarkVincentGo/reservation-service](https://github.com/MarkVincentGo/reservation-service)
    - Optimized a back-end of 80 million entries to handle 10,000 queries per second at a 1% error rate.
    - Integrated NGINX load balancer and Redis database to increase throughput by 400%.
    - Utilized Docker containers for consistent and rapid deployment across multiple AWS EC2 instances.
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## 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
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## TECHNICAL SKILLS

**Languages:** Javascript/Typescript/Node.js, Python, Swift, Golang, HTML, CSS/SCSS, MATLAB  
**Web Technology:** React, React Native, Redux, Vue, D3, Express.js, Django, GraphQL, SwiftUI  
**Data Management:** PostgreSQL, MySQL, MongoDB, Redis, Google Firebase  
**Cloud Technology:** Docker, AWS EC2, AWS S3, Red Hat OpenShift, NGINX  
**Tools:** Git, Xcode, Postman, Jest, React Testing Library, SwaggerUI, Strapi