John Jacob Go

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EDUCATION

Yale-NUS College Aug. 2020 – May 2024

Bachelor of Science in Computer Science (Hons), Minor in Economics Singapore
- GPA: 4.79/5.0, First-Class Honors
- Captain of Yale-NUS Basketball Team, Vice-President of Yale-NUS Technology Club

EXPERIENCE

Fullstack Software Development Intern Feb. 2024 – Present

Bifrost AI Singapore
- Deployed frontend features using Next.js, React, and Typescript to production
- Expanded test suite by writing unit and component tests with Jest and End to End Testing with Puppeteer
- Added API endpoints to help support frontend features with Express, Node, and MongoDB

Software Engineer Intern Aug. 2023 – Feb. 2024

PsyFi Singapore
- Led cross-functional team of 4 in the design and end-to-end development of crypto swap platform to serve 5000+ users using Next.js, TypeScript, TailwindCSS, Recoil, Figma
- Utilized Web3.js and Solana-specific libraries for managing and executing swap transactions
- Implemented backend token swap microservices, CRUD functionality, scheduled CRON jobs, REST API endpoints using TypeScript and Firebase
- Migrated time series data from MySQL to InfluxDB resulting in a 30% improvement in query performance

Full Stack Developer Jul. 2023 – Jan. 2024

Vibefam Singapore
- Developed new backend functionality and microservices involving user management using TypeScript, Firebase
- Migrated legacy codebase from JavaScript to TypeScript, cutting debugging time for developers by 2+ hours daily
- Expanded test coverage by 30% by adding unit tests for TypeScript codebase using Jest
- Built user interfaces, implemented design mockups, and quickly resolved frontend bugs in production using Vue.JS

Software Developer Intern May 2023 – Aug. 2023

VFlowTech Singapore
- Implemented and deployed admin dashboard from scratch to allow fast monitoring of IOT devices by the team using Vue.JS, D3.js, Bootstrap and Sentry, reducing latency from previous solutions by 70%
- Developed and optimized REST API endpoints using Flask, FastAPI and PostgreSQL to retrieve IOT sensor data, using caching, asynchronous processing
- Developed DevOps pipeline for Vue.JS and Python projects using Docker and Jenkins

Backend Development Student Associate Apr. 2023 – Aug. 2023

Yale-NUS College Singapore
- Implemented backend features for astronomy research dashboard using Flask such as data processing and validation, advanced search functionality, and admin database management
- Optimized database queries using caching, leading to a 40% improvement in page load time

Sales Operations Intern May. 2022 – Aug. 2022

Razer Inc. Singapore
- Spearheaded automation of business reports to save department over 2 hours per day using Python, Excel
- Assisted Data Science team in development of data ingestion and ETL program using Python, AWS (S3, Lambda)

Data Science Research Associate May 2021 – Aug. 2022

Yale-NUS College Singapore
- Collaborated with fellow research associates in cleaning and processing data using R and presenting visualizations
- Built and maintained firefly population model using R (base, Tidyverse) and Python (pandas, openpyxl)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Golang, C, HTML, CSS, Dart, OCaml, R
Frameworks: Next.js, React.js, Vue.js, Bootstrap, Tailwind CSS, Express.JS, Flask, Django, Flutter, Recoil, Redux
Developer Tools: Node.js, REST APIs, SQL, MySQL, MongoDB, PostgreSQL, SQLite, GraphQL, Firebase, Docker, Jenkins, Kubernetes, Git, Tableau, AWS, Linux, Microsoft Azure, Figma, Jest