

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

Full-Stack Software Development Intern

Feb. 2024 – Present

Bifrost AI

Singapore

- Deployed frontend features to production using Next.js, React, and Typescript
- Expanded test suite by writing unit, component, end-to-end tests using Jest and Puppeteer
- Added API endpoints to support frontend features using 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 using Next.js, TypeScript, TailwindCSS, Recoil, and 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

Freelance Full-Stack Developer

Jul. 2023 – Jan. 2024

Vibefam

Singapore

- Developed new backend functionality and microservices involving user management using TypeScript, Firebase
- 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

- Led end-to-end development of internal admin dashboard using Vue.JS, D3.js, Bootstrap, and Sentry to allow fast monitoring of IOT devices, reducing latency from previous solutions by 70%
- Developed and optimized REST API endpoints using caching and pagination to retrieve IOT sensor data, using Flask, FastAPI, and PostgreSQL
- Developed DevOps pipeline for Vue.JS and Python projects using Docker, 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, and administrator database management functionality
- 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 using Python and Excel to save department over 2 hours daily
- 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