

Gowthaman Aravindan

Singaporean citizen; Eligible for the H1B1 Singapore Visa, which has a separate quota from the limited H-1B pool

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🐙 [GitHub](#)

🌐 [LinkedIn](#)

🌐 [Website](#)

🎓 Education

National University of Singapore

Bachelor of Engineering, Major in Computer Science

Expected May 2024

📁 Experience

Advanced Micro Devices (AMD)

July 2022 – Dec 2022

Software Development Intern

Singapore

- Developed system software applications for AMD's Ryzen / Navi based Accelerated Processing Unit (APU) platforms.
- Implemented test programs, chip characterization and debugging tools that support AMD's agile product development.
- Ensured that the performance and power management benchmark of APU units are conforming to company standards.

PsyFinance

March 2022 – July 2022

Software Engineer Intern

Singapore

- Shipped enhancements such as pagination and modals using ReactJS and TypeScript that benefited over 5000 users.
- Optimized front-end performance through centralized state management, reducing page loading times by about 25%.
- Built a Node.JS package with custom functional components for start-ups that want to utilize PsyFinance's option vaults.
- Integrated an analytics tool for monitoring of site traffic and transactions to understand PsyFinance's customer behaviors.
- Added a CI/CD pipeline to automate running of unit tests on pull requests to prevent errors from entering production code.
- Contributed to the launch of V2 app and responded to user feedback by pushing daily ticket fixes and enhancements.
- Created a debugging tool that deserializes JSON data obtained from account keys into a tabulated format for better data visualization.

Bumblebee Autonomous Systems

Aug 2021 – March 2022

Robotics Software Engineer

Singapore

- Designed autonomous underwater and surface vehicles from ground up for research and participation in competitions.
- Developed a simulation environment for DJI drone using Python packages in a Linux based Robot Operating System.
- Conducted biweekly sea trials to evaluate software capabilities in operation that enabled team to attain second place.

💻 Projects

Second 🐙 MongoDB, ExpressJS, ReactJS, NodeJS, Redux, PayPal SDK

- E-commerce platform to sell second-hand items, with features such as cart, product search, checkout, and payment.

Traiflix 🌐 TypeScript, NextJS, TailwindCSS, Stripe SDK, Firebase

- Video streaming website to watch trailers of popular movies and shows, with payment and user subscription features.

Quizot Python, Telegram API, AWS

- Telegram bot that quizzes players on 101 trivia questions and tracks their progress using game points and rewards.

LiTodo 🐙 Swift, Core Data

- IOS app that tracks user's to-dos using CRUD persistent storage. Features task priorities and customizable themes.

</> Technical Skills

Languages: TypeScript, JavaScript, Python, C, C++, Java, HTML, CSS, Latex, Swift

Technologies/Frameworks: NodeJS, ReactJS, NextJS, TailwindCSS, MongoDB, ExpressJS, Redux, Recoil, Core Data

Developer Tools: Git, Linux, NPM, CircleCI, Amplitude, Fathom, Postman, AWS, ROS, Gazebo, Apache

👥 Activities

NUS Faculty of Engineering

Aug 2021 – March 2022

Teaching Assistant

- Guided 20 students in a 12-week robot design course which exposed them to Arduino micro-controller programming.

Seeds of Good Program

Jan 2021 – Aug 2021

Coding Instructor

- Taught programming to 50 primary and secondary school students using interactive web games built using Scratch.

NUS Engineering Club

May 2021 – Aug 2021

Vice Project Director

- Led a team of 12 through the planning and execution of a 2-day orientation camp for over 200 incoming freshmen.