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🐙 [GitHub](#)

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🎓 Education

National University of Singapore

Bachelor of Engineering, 2nd Major in Computer Science

Expected May 2024

📁 Experience

Google

Incoming Software Engineer Intern

May 2023 – Aug 2023

Singapore

Zendesk

Software Engineer Intern (DevOps)

Jan 2023 – May 2023

Singapore

- Migrated **AWS EC2** development environments to **Kubernetes clusters** which improved resource utilization and reduced infra costs.
- Integrated **Devspace**, a Kubernetes developer tool, that streamlined interactive development workflows and increased team productivity.
- Successfully deployed new features into production, ensuring a stable release by monitoring **Jenkin** smoke tests and **Datadog** metrics.
- Developed a Slack bot using **NodeJS** that uses **NLP** and **supervised learning** to predict answers based on an existing FAQ database.
- Performed an authentication token rotation for **Redis** clusters in key microservices as part of companywide secrets revocation program.

Kinexcs

Software Engineer Intern (Full Stack)

Nov 2022 – Jan 2023

Singapore

- Designed widgets using **Figma** and added them into a mobile application using **Flutter** to support the launch of new gamified exercises.
- Integrated a **Unity** game into Flutter and enabled cross communication of game protocols and parameters through Bluetooth plugins.
- Designed, restructured and maintained DynamoDB and RDS databases (**Amazon Web Services**) to store user stats and game data.
- Built Back-End scripts using **Python (Flask)** and leveraged **Docker** containers for end-to-end testing and verification of API endpoints.
- Spearheaded weekly sprint meetings as the scrum master and managed 2 interns by assigning tasks and providing technical guidance.

Advanced Micro Devices (AMD)

Software Engineer Intern (Systems)

July 2022 – Oct 2022

Singapore

- Developed system level test (SLT) programs written in **Java** to emulate the final customer environment of AMD's semiconductors chips.
- Leveraged AMD's in-house APIs to rescreen SLT tests on rejected chips to characterize and isolate the root cause of firmware failures.
- Optimized existing USB verification **Ruby** script which checks if the peripheral device connected to test stations is a valid storage media.
- Wrote a **Python** script to automate the extraction of SLT test results from a backend database and neatly displayed them using **PowerBI**.
- Executed **Groovy** scripts to conduct regression testing of chips with different serial numbers, improving program stability and reliability.

PsyFinance

Software Engineer Intern (Front-End)

March 2022 – July 2022

Singapore

- Shipped UI enhancements such as pagination and modals using **NextJS**, **TypeScript** and **TailwindCSS** that benefited over 5000 users.
- Optimized the front-end performance through centralized state management using **Recoil** reducing page loading times by about 25%.
- Contributed to the launch of a new company website and responded to user feedback by pushing daily ticket fixes and enhancements.
- Integrated **Amplitude**, an analytics tool for monitoring statistics such as site traffic and transactions to understand customer behaviors.
- Added a **CircleCI**, a CI/CD pipeline to automate the running of **Jest** unit tests on pull requests to prevent bugs from entering production.
- Built an **NPM** package with **React** components, providing vendors with an easy-to-use UI library for accessing and utilizing option vaults.
- Created a debugging tool that deserializes JSON data into tables for better visualization, increasing productivity of developers by 50%.

💻 Projects

Chatty 🐙 *JavaScript, Telegram API, Heroku*

- Telegram bot that leverages OpenAI's language model, ChatGPT to provide informative and contextually relevant responses to queries.

LiTodo 🐙 *Swift, Core Data*

- iOS application that tracks user's to-dos using CRUD persistent storage with features such as task priorities and customizable themes.

🔧 Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C++, Dart, SQL, Bash, HTML, CSS, Swift

Technologies/Frameworks: NodeJS, ReactJS, MongoDB, ExpressJS, PostgreSQL, Flask, Flutter, Redux

Developer Tools: Git, Linux, Vim, Docker, Kubernetes, Postman, AWS, Heroku, Vercel

🌱 Activities

NUS Faculty of Engineering

Aug 2021 – March 2022

- Mentored 50 students in a 12-week long robot design course which exposed them to **C++** and Arduino **micro-controller programming**.