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Professional Experience

Software Engineer Intern [Tiktok](#)

Singapore 05/2024 - 08/2024

- Increased developer productivity by 2x the speed of bundling and significantly reducing CI pipeline run time and production deployment time (from 15 minutes to 10 minutes) for the Money-Platform through the migration from Webpack to Rspack. Drove a cross-functional collaboration involving Rspack, Rsbuild, Tiktok LIVE Solutions team.
- Developed a white screen test summary page and enhanced the white screen test Lark bot, improving debugging processes and developer experience by providing detailed reports and debug information including console logs and network requests, viewable inside Chrome Devtools, eliminating the need to locally reproduce bugs. This tool managed to quickly catch and report a major bug released during the internship.
- Developed a alarm Lark bot which streamlined alarm handling and provided comprehensive analysis of alarm responses by aggregating and filtering alarms, and designed a standardized API for easy third-party integration.

Software Engineer [Computing for Voluntary Welfare Organisations](#)

Singapore 05/2023 - 08/2023

- Reduced backend response time by 5 times by porting a Case Management System backend from Ruby on Rails to Golang. Notable features ported include RBAC, Auth, 2FA and Masquerading.

Open Source Contributions

Rspack

- Made contribution to Webpack alignments, Javascript to Typescript migrations.

Projects

Rustscript [\(Git Repository\)](#)

- Developed a statically typed, compiled programming language combining Rust's syntax with the simplicity of TypeScript and Go with core features including primitive data types, higher-order functions, type checking, and concurrency support. The language to compile code into bytecode, akin to Java, followed by execution on a virtual machine.

Cambodia Community Library [\(Git Repository\)](#)

Singapore & Cambodia

- Solo built a full stack Library Management System with role based access control for a village located at Cambodia. It is a two year school project aimed to improve literacy level in Ou Ruessei, a village located at Cambodia.

Education

BSc Computer Science [National University of Singapore](#)

Singapore 2022 - 2026

Focus areas: Programming Language and Parallel Computing

CCA

President [Computing for Voluntary Welfare Organisations](#)

09/2023 - Present

Oversee the recruitment and application process for CVWO's 2024 Summer Internship program. Manage marketing, outreach, and operations for CVWO.

Backend Tech Lead [NUS Students' NUS College Club](#)

12/2023 - 04/2024

Designed and implemented Role Based Access Control for the for backend of the NUSC Club website

Skills

- Programming Languages:** Typescript, Rust, Go, Java, Python
- Technologies:** React, PostgreSQL, Redis

Languages

- English** [Native]
- Chinese** [Native]