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Professional Experience

Software Engineer *Computing for Voluntary Welfare Organisations* **Singapore** 05/2023 - 08/2023

- Contributed in porting a Case Management System backend from Ruby on Rails to Golang, building features including: RESTful api, RBAC, Auth and 2FA, Masquerading.
- The new backend has significant performance improvements: reduced response time from 5 - 20 times, depending on the module.

Projects

Rustscript (*Github Repository*) 01/2024 - Present

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

Cambodia Community Library (*Github Repository*) **Singapore & Cambodia** 08/2023 - Present

- A two year school project aimed to improve literacy level in Ou Ruessei, a village located at Cambodia. My task is to build a Digital Library Management System with User Interface to let the locals use our library with ease.
- Solo built a full stack Library Management System. Users can borrow, return renew and reserve books while staff can carry out administrative actions. All resources are managed with Role Based Access Control.

Education

BSc Computer Science *National University of Singapore* **Singapore** 2022 - 2026

Relevant Courses: Programming Methodology, Data Structures and Algorithms, Design and Analysis of Algorithms, Software Engineering, Intro to Operating Systems, Introduction to AI and Machine Learning & Programming Language Implementation.

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 Bases Access Control for the for backend of the NUSC Club website

Skills

- **Programming Languages:** Rust, Go, Typescript, Java, Python
- **Technologies:** React, PostgreSQL, Redis
- **Machine Learning:** PyTorch, Pandas, Numpy, Scikit-learn
- **Video Editing:** Adobe Premiere Pro, After Effects

Languages

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