Wu Xiaoyun

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Professional Experience

Software Engineer Intern *Tiktok*   **Singapore** *05/2024 - 08/2024*

- Increased developer productivity by improving the speed of bundling assets (js,html,css) by 2x 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.

- Enhanced Quality of Money-Platform by developing a white screen test summary page and enhanced the white screen alarm Lark bot. This improved debugging processes and developer experience with white screen alarms by providing detailed reports and debug information including console logs and network requests, viewable inside Chrome Devtools, eliminating the need to locally reproduce bugs and increasing the speed of handling alarms.

- Developed alarm Lark bot which streamlined alarm handling workflow and provided comprehensive analysis of alarm responses by aggregating and filtering alarms. Designed a standardized API for easy future third-party integration. Integrated white screen alarm with this standardized API.

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

- 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   **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:** Reactjs, Solidjs, PostgreSQL, Redis

Languages

- **English** [Native]

- **Chinese** [Native]