

# YU WEI WU

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## BRIEF

A software developer interested in system programming, exploring from operating systems to embedded systems. Specifically, the design and implementation of concurrency patterns, for data, threads, and more. Proficient in Rust and C, but comfortable with most general programming languages.

## EDUCATION

**National Chiao Tung University**, Taiwan

08/2012 – 07/2016

Bachelor: Computer Science

## WORK EXPERIENCE

**BiiLabs Inc.**, Taiwan

11/2018 – 08/2019

(Cloud Services) Software Engineer

- Improved computation bottleneck significantly with various technics like SIMD and embedded FPGA.
- Developed microservices to accelerate accessing distributed system.

**IOTA Foundation**, German Berlin

08/2019 – 12/2020

(Distributed Storage Systems) Senior Software Engineer - Protocol Team

- Developed the protocol of main system service. Built several essential components around the distributed system like async actor runtime, message queue, and database ORM.
- Designed the framework that can be the one source of truth and provides better interoperability through WASM and FFI.

## PERSONAL PROJECTS

**Tauri**

<https://github.com/tauri-apps/tauri>

A framework that builds smaller, faster, and more secure desktop applications with a web frontend.

- Compatible with any front-end framework which means developers don't have to change their stack.
- Supports cross-platform compilation to bundle binaries for major desktop platforms.
- Tauri application can have extreme small binary size and memory usage.

**Wry**

<https://github.com/tauri-apps/wry>

Cross-platform WebView rendering library in Rust that supports all major desktop platforms like Windows, macOS, and Linux.

## SKILLS

- **Program Language: multilingual** (not limited to any specific language), especially experienced in Rust C, comfortable with C++ Haskell C# Objective-C Python Swift Racket (in random order).
- **Rust: 4 years** of experience, familiar with Cargo and Bazel, understand procedural macros, Rust asynchronous runtimes, and unsafe usage, contributed to Rust compiler and its tools from time to time.
- **System Programming: 3 years** of experience, familiar with Linux programming interface and also other Unix-like OSes. Understand profiling tools like perf and how to generate the flame graph. Could write an operating system from scratch.
- **Database:** familiar with various databases such as Rocksdb, Cassandra, mariaDB, SQLite, PostgreSQL, etc.
- **Development Tool:** can adapt to any editors / operating systems, usually use JetBrains IDEs and Vim under Arch Linux.

## MISCELLANEOUS

- Crates.io profile: <https://crates.io/users/wusyong>, for publishing interesting Rust libraries
- Languages: English - fluent, Chinese - native, Taiwanese - native
- Member of Tauri, Webview, rust-tw and more, contributed to rust, async-std, veloren, tauri, riscv-opcodes, grcov, windows-rs, gtk-rs, winit, smol, amethyst and other projects
- Get one-page version of the resume here: <https://tinyurl.com/5bu836cy>
- Get complete version of the resume here: <https://tinyurl.com/ffw74czc>