

# YU WEI WU

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## BRIEF

A software developer interested in system programming, love to explore different architecture platforms, especially RISC-V. 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 approach like SSE/AVX SIMD acceleration and building embedded FPGA cluster with rabbitMQ.
- Developed microservices to accelerate accessing distributed system. Deployed and Monitored them with tools like Ansible and Grafana.

**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-based runtime, MPMC channel, and a fully hand-made protocol implementation to communicate with Cassandra / ScyllaDB.

## 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 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 general architecture of the operating system and know how to write one from scratch.
- **Profiling:** familiar with various tools such as perf, Flame Graph, Valgrind, and many kinds of sanitizers.
- **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

- 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>