Weihang Lo

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BRIEF

A Rustacean that believes open source and open community would make the world a better place.

- Professional Rust developer 🦀.
- Maintainer of the Cargo project.
- Active member and organizer of the Rust Taiwan community.
- Currently focus on build systems and tools development.

EXPERIENCE

Amazon Web Services (AWS)   London, United Kingdom
Software Engineer   July 2022 – Present

- Maintain, design, and develop Cargo, the official Rust package manager and build system.
- A member of the Rust build experience team, which builds the internal Rust build system at AWS.
- Contributed to awslabs/smithy-rs, code generators for generating services for Rust in Rust.

SUSE   Remote, Taiwan
Senior Software Engineer   June 2021 – June 2022

- Contributed to Harvester GA release. Work on the control plane, VM integration, and disk management. Harvester is an open source HCI solution originated from SUSE and Rancher.

Hahow   Taiwan
Software Engineer   March 2018 – March 2021

- Developed autoscaling application to tackle surging demands of online-learning during COVID-19.
- Administrated Kubernetes clusters, Helm releases, Consul datacenter, and GKE/GCE infrastructures with alert/monitoring systems and CI/CD processes.
- Upgraded 5-year-old MongoDB cluster with minimum downtime by robust migration plan and monitoring.
- Designed and developed the migration of legacy order system to decouple business logic from third-party payment service and data storage layer.

Hyweb   Taiwan
Software Engineer   July 2016 – March 2018

- Given Outstanding Employee Award of 2017 (among 10 of 300 employees).
- Hosted front-end/Swift study groups and instructed participants from R&D department.
- Designed and developed software architecture of HyRead Ebook reader for both web and desktop platforms. HyRead is the largest B2Library Ebook service in Taiwan.
- Developed multi-threading download scheduler for HyRead 3 iOS App, which won 2018 Taiwan Excellence Award.

Education

National Taiwan University   Taiwan
BSc in Agriculture Forestry and Resource Conservation   August 2012 – Jun 2016

- Won Academic Excellence Award 3 times (for top 5% students in class each semester).
- Bachelor thesis: *Developed computer-simulated models to imitate a biodiversity assessment method based on human decision modeling*.
- Linux system administrator at Forest Mensuration Lab.
- Built social corpus with data mining and machine learning techs at Lab of Ontologies, Language Processing & e-Humanities.

Projects

The Rust Programming Language   https://rust-lang.org
Cargo Team Member

Have been hacking on Cargo since 2020. Became a member of the Cargo Team since 2022. Cargo is the official package manager and build tool for Rust. Some data from 2022-09 to 2023-06:

- Focus on improving the contributor experience.
- One of top three contributors of all time for Cargo.
- Triaged 420+ issue with informative responses and labels.
- Reviewed 200+ pull requests for rust-lang/cargo
- Submitted 120+ pull requests to rust-lang/cargo
- Mentored 11+ people from issue to pull request merged
- See more open source achievements here.

Rust Taiwan Community   https://github.com/rust-tw
Organizer

- Translated "The Rust Programming Language" book to Traditional Chinese.
- Gave a talk about asynchronous programming in COSCUP 2019.
- Moderate Rust Taiwan Telegram and Facebook groups.

Skills

- **Professional:**
  - Open source software developement and management
  - Rust, Cargo, Go, Node.js
  - MongoDB, Redis, React, GCP, NGINX
  - Kubernetes development, OS storage management
- **Has Experiences in Production:**
  - Kotlin, TypeScript, Python, Swift/Objective-C
  - PostgreSQL, SQLAlchemy, Protocol Buffer
  - Consul, Serverless, AWS CloudFormation/Lambda
  - libvirt, kvm

Miscellaneous

- Languages: English — working proficiency, Chinese — native, Taiwanese — native.
- Open source projects contributions: `git2-rs`, `curl-rust`, `hyper`, `mdBook`, `redis-rs`, and others.