

Yage Hu

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SKILLS & HIGHLIGHTS

- **Rust and Go expert.** I have extensive backend development experience with both languages in addition to research tooling development in Rust.
- **Cloud infrastructure expert.** I have deep knowledge of AWS and infrastructure-as-code tools like Terraform. I can bootstrap your cloud infrastructure or productionize existing deployments.
- **Systems/low-level enthusiast.** I have research experience with WebAssembly (WASM) and am passionate about systems programming in general. I thrive at the hardware-software boundary.

WORK

Founding Engineer

2022/07/25–2023/04/14

Abbey Labs

- Bootstrap the infrastructure to host complex data ingestion and workflow workloads.
- Rapidly prototype software demos to find product market fit.

Software Engineer

2021/10/12–2022/07/22

Meta

- Implement Android camera hardware abstraction layer (HAL) for AR/VR products.
- Develop Linux/Android native system services in C++ to support AR/VR use cases.

Software Development Engineer II

2020/11/30–2021/09/20

Amazon

- Implement and maintain a specialized workflow orchestration platform in Kotlin/Java to support Amazon Prime business.

Software Engineer II

2019/03/18–2020/11/12

Uber

- Migrate a Python backend service to a gRPC Go service resulting in a 30x speedup.
- Lead the development of a new Go service that served the entire company's internal social media website.

RESEARCH

Research Assistant

2020/07–2021/12

Professor Wenwen Wang, University of Georgia

- Apply formal methods to improve WebAssembly System Interface (WASI) specification. Use TLA⁺ and TLC to formally specify and model-check WASI. Build tools to test the compliance of WebAssembly virtual machine implementations to the WASI specification.

EDUCATION

B.S., Computer Engineering and Electrical Engineering

June 2017

University of California, Davis