

# Yage Hu

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## WORK

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### 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 Meta Reality Labs 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.
- Manage AWS cloud infrastructure with Cloud Development Kit and CloudFormation.

### 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. Set up and maintain infrastructure, CI, monitoring, and alerting.

### Systems Engineer

2017/08/17–2019/03/08

*Super Micro Computer*

## RESEARCH

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### Research Assistant

2020/07–present

*Professor Wenwen Wang, University of Georgia*

- Apply formal methods to improve WebAssembly System Interface (WASI) specification. Use TLA<sup>+</sup> and TLC to formally specify and model-check WASI. Build tools to test the compliance of WebAssembly virtual machine implementations to the WASI specification.
- Develop a WASI test suite. Write syscall unit tests in WebAssembly text format.
- Compose a WebAssembly runtime benchmarking suite.

## EDUCATION

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### B.S., Computer Engineering and Electrical Engineering

June 2017

*University of California, Davis*