

Yage Hu

yagejhu@gmail.com | + 1 530 379 5631

WORK

Software Development Engineer II

2020/11/30–present

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.
- Identify and close system reliability gaps by improving monitoring and alerting. Define alerts as code to reduce toil and better audit alert coverage.
- Implement and maintain ETL jobs in Python with Apache Airflow.

Systems Engineer

2017/08/17–2019/03/08

Super Micro Computer

- Develop a web portal for team project management using Angular.
- Develop, maintain, and deploy a document generation service in Python.
- Deploy applications and server configurations with Ansible.
- Deploy and debug OpenStack cloud platform.

RESEARCH

Research Assistant

2020/07–present

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.
- Develop a WASI test suite. Write syscall unit tests in WebAssembly text format.
- Compose a WebAssembly runtime benchmarking suite.
- Develop research tools in Rust.

EDUCATION

B.S., Computer Engineering and Electrical Engineering

June 2017

University of California, Davis