Ellen Huang

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Skills

Languages: Go, Python, C++, Java, JavaScript, SQL, Bash
Frameworks & Tools: React, gRPC/Protobuf, Kubernetes, GraphQL, MongoDB, Docker, Pybind

Work Experience

Lyft – Software Engineer Intern   Aug. 2021 – Nov. 2021
Go, Kubernetes

- Improved robustness of T0 service and saved hours of developer time per week by speccing and implementing the expansion and automation of regression tests. Productionized changes by adding monitoring and stats.

Facebook – Software Engineer Intern   Jan. 2021 – Apr. 2021
C++, Python, Pybind

- Designed, implemented, and documented a mechanism to inject Python code into C++ by leveraging Pybind, enabling the testing of experimental Python code in production C++ environments and facilitating rapid iteration.

Gem – Full Stack Developer Intern   May 2020 – Aug. 2020
React, Python, GraphQL, PostgreSQL

- Introduced functionality to edit candidate work and education experiences; parsed resumes to backfill records.
- Built [landing page](#) and signup flow to launch the Free for Startups program and onboard hundreds of startups.

TextNow – Backend Developer Intern   Sept. 2019 – Dec. 2019
Go, gRPC/Protobuf

- Implemented phone number verification microservice to concurrently test SMS/calling functionality; reduced verification time per number from 1 day to <10s and verified >125000 numbers in production.
  - Increased testing throughput by leveraging database connection pooling and API request queuing.
  - Maintained thread and data consistency by utilizing buffered channels and mutexes.
- Fortified spam detection by writing parser to identify URLs in texts; built cache to store ID of suspicious users.

Projects

Old to Joy

- Cofounded the Old to Joy program, which brings high school musicians together to perform at retirement homes.
- Coordinated with senior residences, organized performances, led rehearsals, and performed at concerts.

Education

University of Waterloo: Candidate for Bachelor of Software Engineering   Graduation April 2022

Interests

Orchestra @uWaterloo | Polyglot | Army Run Commander's Challenge (26.1km) | (Audio)Bookworm