

Ellen Huang

 ellenhuang.dev
 github.com/jlight99
 linkedin.com/in/ellenhuang
 ellenhuang523@gmail.com

Skills

Languages: Go, Java, C++, TypeScript, Ruby, Bash, SQL

Frameworks & Tools: gRPC/Protobuf, Angular, MySQL, MongoDB, Docker, Redis, Git, Tableau

Work Experience

TextNow – Backend Developer Intern

Sept. 2019 – Dec. 2019

- Built phone number verification microservice in Go 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
 - Deployed Docker service from AWS ECR with Kubernetes and added Datadog monitoring
- Fortified spam detection by writing parser to identify URLs in texts; built Redis cache to store ID of suspicious users

SAP – Full Stack Developer Intern

Jan. 2019 – Apr. 2019

- Developed autoscaling and KPI reporting features for the Commerce Cloud Portal, as well as the underlying automated application deployment and management engine
- Prototyped and demoed a Go/gRPC ecommerce delivery web app and promoted the adoption of gRPC at SAP

Dematic – Full Stack Developer Intern

Apr. 2019 – Aug. 2018

- Constructed a dashboard configuration microservice in Java, enabling the development of map drilldown
- Created and demoed interactive Tableau dashboards to senior leadership and key stakeholders

Projects

Refactored Spoon

Go, Angular, MongoDB

- Developed a web app to track daily meals, store saved meals and generate nutrition reports from USDA database
- Implemented JWT-based authentication with Angular routing and interceptors to ensure secure user management

DockerJIG

Docker, JMeter, InfluxDB, Grafana, Bash

- Built automated and configurable load-testing suite with result visualization, eliminating manual setup overhead

Old to Joy

- Cofounded the Old to Joy program, which brings high school musicians together to perform at retirement homes
- Coordinated performances, organized weekly rehearsals and hosted and performed at the concerts

Education

University of Waterloo: Candidate for Bachelor of Software Engineering

Graduation April 2022

Interests

Violinist in orchestra@uwaterloo | Participant in Army Run 2019 Commander's Challenge (26.1km) | Budding blogger