

Ellen Huang

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Skills

Languages: Java, Go, Python, JavaScript, Bash, SQL, C++

Frameworks & Tools: React, gRPC/Protobuf, Angular, GraphQL, MongoDB, Docker

Work Experience

Gem – Full Stack Developer Intern

May 2020 – present

React, Python, GraphQL, SQL

- Built landing page and signup flow to enable launch of Free for Startups program; worked cross-functionally with product/sales to finalize the design and flow, resulting in successfully registered startups within days of the launch.

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.

SAP – Full Stack Developer Intern

Jan. 2019 – Apr. 2019

Java, Angular, Docker

- Developed autoscaling and KPI reporting features for the Commerce Cloud Portal, as well as the underlying automated application deployment and management engine.

Dematic – Full Stack Developer Intern

Apr. 2019 – Aug. 2018

Java, Tableau, Angular

- 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

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, hosted, 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