

Ellen Huang

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Skills

Languages: Java, Go, C++, PHP, JavaScript/TypeScript, Bash, SQL

Frameworks & Tools: gRPC/Protobuf, Angular, Node.js, MongoDB, Docker, Redis, GCP, Git, Tableau

Work Experience

TextNow – Backend Developer Intern

September – December 2019

- Built Go microservice with gRPC to concurrently verify SMS/calling functionality of phone numbers and store results in Amazon Aurora database; service is deployed to Kubernetes and running in AWS
- Fortified spam detection by building a URL parser to identify URL in text messages and drop suspicious messages
- Advanced anti-fraud measures by recording ASN of fraudulent users in Redis cache, and implementing logic to evaluate whether to delay user's purchase based on their ASN and purchase history, saving \$2000/day in fraud cost

SAP – Full Stack Developer Intern

January – April 2019

- Developed configuration of autoscaling feature which scaled customer storefront pods based on load; constructed Angular UI to accept values and Java server-side logic to store values in Microsoft SQL database
- Improved autoscaling testing solution by automating load generation, reduced manual setup time by >90%

Dematic – Analytics/Cloud Engineer Intern

April – August 2018

- Constructed a Tableau dashboard configuration microservice in Java, which accepted coordinates from web interface and drew polygons on dashboard maps, enabling the development of map drilldown features
- Created interactive Tableau dashboards which were demoed at the MHLC international conference

Projects

Refactored Spoon | JavaScript, MongoDB, Express, Angular, Node.js

- 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

- Created an automated and configurable performance testing suite with load generation and results visualization

Hogwarts Hangman | Java, Swing, MySQL

- Developed interactive game with rich graphic interface which prompts users to guess Harry Potter characters

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