


# Ellen Huang

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## Skills

Languages: Java, JavaScript/TypeScript, C++, Bash, SQL, HTML, CSS

Frameworks & Tools: Angular, Node.js, MongoDB, Docker, Kubernetes, GCP, Git, Tableau

## Work Experience

SAP – Full Stack Developer Intern

January – April 2019

- Implemented configuration of autoscaling feature which scaled customer storefront pods based on load
- Developed Angular user interface to accept configuration values and implemented Java server-side logic and RMDB data models to store configuration, enabling customers to specify their autoscaling policy, metric target, etc.
- Prototyped and demoed an ecommerce crowdsourcing delivery web app by building Go microservices with gRPC, and promoted the adoption of gRPC at SAP

Dematic – Analytics/Cloud Engineer Intern

April – August 2018

- Constructed a Tableau dashboard configuration microservice, which accepted x-y coordinates from customer-facing web interface and drew polygons on dashboard maps, enabling the development of map drilldown features
- Created interactive Tableau dashboards to provide business insight; dashboards 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 dynamically generate nutrition reports from USDA food database
- Implemented JWT-based authentication with Angular routing and interceptors to ensure secure user management
- Deployed Dockerized web app to Google Cloud Platform using Google Kubernetes Engine

DockerJIG | Docker, JMeter, InfluxDB, Grafana, Bash

- Created a configurable performance testing suite, complete with load generation using JMeter and results visualization through Grafana
- Integrated technologies into a multi-container Docker application, reducing setup time by 90%

Hogwarts Hangman | Java, Swing, MySQL

- Developed a game which prompts users to guess Harry Potter characters with a Swing-based graphical user interface to provide users with an intuitive and interactive experience

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