

# YUQI ZHENG

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## QUALIFICATIONS SUMMARY

Strong web development skills. Hands-on experience in:

- High-volume software development using Object-oriented language such as **C++**, **Java**, and **Python**
- Back-end implementation with **Node.js** and **Django** frameworks
- Front-end development skills with **React.js**, **XHTML**, **JavaScript**, and **CSS**
- Relational databases including **MySQL**, **MariaDB** and **PostgreSQL**
- NoSQL databases such as **MongoDB** and **Redis**
- Portfolio: [https://deepforce.github.io/zack\\_blog/](https://deepforce.github.io/zack_blog/)

## EDUCATION

**Information School, University of Washington, Seattle** Sep. 2018-Jun. 2020

*Master of Library and Information Science GPA: 3.8/4.0*

- **Related Coursework:** Software Development for Data Scientist, Introduction to Database System

**School of Computer Science, South China Normal University, Guangzhou** Sep. 2014-Jul. 2018

*Bachelor of Engineering in Computer Science*

- **Related Coursework:** Algorithms & Data Structures, Operating Systems, Networks, Databases
- **Honor/Award:** Second Prize of SCNU ACM Competition in 2017

## WORK EXPERIENCE

**Diversity Policy, Seattle** Jan. 2020-Apr. 2020

*Backend Developer Intern*

[\(https://diversitypolicy.com/\)](https://diversitypolicy.com/)

- Extracted and cleaned redundant and duplicate data of policy documents in **PostgreSQL** database with **SQL** and **Python** scripts. Reduced the data size by 8%
- Validated and corrected geographic information of each record using **Google Map API**. Increased the accuracy rate by 7%
- Reviewed and removed irrelevant files and folders in the **GitHub** codebase. Separated the code and docs in different places to avoid file loss issues
- Refactored the searching function by only using **Django** built-in libraries, excluding other third-party dependencies such as **SQLAlchemy** and **Flask**
- Optimized the efficiency of search engine around 70% with adding the **GIN** index into the database
- Built an automated testing pipeline by adding **unit tests** for key functions and using **Travis CI**

## PROJECT & RESEARCH

**True Brands (CapStone), Seattle** Dec. 2019-Jun. 2020

*Project Member*

[\(https://www.truebrands.com/\)](https://www.truebrands.com/)

- Extracted and formatted real world product data from **Oracle NetSuite** system to Salsify's Commerce XM Platform; Visualized and generated product catalog with search engine
- Created and modified the demo landing page using **Magento** page layout builder
- Assessed and analyzed loading performance of True Brands websites with tools such as **yslow**, **yellow lab tools**, and **WebPageTest**, **Google PageSpeed Insights** and **Chrome Devtools**

**Global Souvenir Guidebook, Seattle** Sep. 2019-Dec. 2019

*Project Member*

<https://github.com/FannieFann/Info-442-Global-Souvenir-Guidebook>

- Implemented search, filter, pagination features for gift/souvenir shops with **React.js** in frontend and **Node.js** & **Express** in backend
- Collaborated and brainstormed with team members with complete, precise, non-conflicting, and verifiable requirements using **agile** development tools like **Kanban**, **Jira**, and **GitHub**.

**Parking Advisor, Seattle** Sep. 2018-Dec. 2018

*Project Leader*

<http://35.203.178.8/>

- Developed parking recommendation app based on traffic, time, location for users in Seattle area using **Django** in Backend and **Bootstrap** in frontend.
- Visualized and colorized both street and non-street parking lots with **folium** provided by **OpenStreetMap**; Identified and populated detailed information like connection types and EV level of EV chargers in parking lots with **JQuery**
- Integrated and deployed as a web app to the google cloud with **uWSGI** and **Nginx** for load balancing and static content serving.