

# JIN CHANG

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## EDUCATION

**University of Washington** Seattle, WA | June 2019  
B.A, Geographic Information Systems (GIS), Informatics Minor

**Relevant Coursework:** *Computer Science: Java I & II, Database Structures and Algorithms, Software Architecture, Cooperative Software Development, Client-Side Web Development, Design Thinking, Introduction to Database Programming, Data Science Methods, Coastal GIS*

## EXPERIENCE

**Front-End Developer** - *Statewide Poverty Action Network*  
Seattle, WA | April 2019 – July 2019

- Developed a web map application using VueJS, NodeJS, HTML, and CSS
- Initiated and integrated the force load event into the splash page to load automatically in 30 seconds
- Created an automated web scraper via the Selenium library and parsed the data with Python scripts
- Tested and troubleshooted technical issues

## PROJECTS

**Front-End Developer** - *IceBreaker, University of Washington*  
Seattle, WA | April 2019 – July 2019

- Oversaw the development of a new web application via ReactJS, Firebase, NodeJS, HTML, and CSS
- Implemented 2 different front-end features where the user can either join an existing game or create a new game
- Pushed app development two weeks ahead of schedule through unit, UI, and integration tests
- Conducted code reviews for each module

**Data Analyst** – U.S. Exports, *University of Washington*  
Seattle, WA | February 2019 – March 2019

- Collaborated and developed a Shiny App that displays an analysis of U.S. top export products via R
- Created two interactive choropleth map visualizations and a dropdown menu displaying all the export products
- Troubleshooted technical bugs that prevented deployment and successfully hosted the app on the shinyapps.io

**Software Developer** - CAD MVC, *University of Washington*  
Seattle, WA | May 2019

- Developed a computer aided design program where someone can design the architecture of a block house or similar scale via TypeScript
- Dynamically allow users to have different modes of interaction by implementing the MVC and Observer pattern
- Applied the SOLID principle to reduce cohesion and coupling

**Software Developer** - Search Engine, *University of Washington*  
Seattle, WA | April 2018 – May 2018

- Created a dictionary data structure and its associating get, add, remove, and contains methods in Java
- Utilized quality assurance testing tools such as JUnit to address algorithmic issues
- Modified the code to handle more than 100,000 cases under 7 seconds

## TECHNICAL SKILLS

### Advanced . . . . .

Java  
Python  
HTML  
JavaScript  
ReactJS  
VueJS  
R  
CSS

### Intermediate . . . . .

NodeJS  
TypeScript  
JUnit  
Firebase  
Heroku  
Version Control (GIT)  
Selenium

### Beginner . . . . .

AWS  
SQL

## TOOLS

### Advanced . . . . .

Figma  
PowToon  
Tableau  
QGIS  
ArcGIS  
Jupyter Notebook