

# Phillip Tran

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## EDUCATION

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### University of Washington

B.S. Computer Science

Seattle, WA

September 2019 – June 2022

## PROJECTS

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### Distributed System | CSE 452 (Distributed Systems)

- Developed a distributed, linearizable communication between a client-server and a group of servers in Java
- Designed and implemented Multi-Paxos consensus algorithm, resulting in a 50% faster runtime and greater fault tolerance
- Coordinated team meetings and established efficient workflow and testing procedures in Git, improving team productivity

### Multi-Agent Pac-Man | CSE 473 (Intro to AI)

- Built a reflex agent in Python by utilizing reinforcement learning to teach Pac-Man how to avoid ghosts while aiming for a good score
- Improved the success rate of Pac-Man staying alive by using Minimax, a decision-making algorithm resulting in a 100% win rate

### Husky Maps | CSE 332 (Data Structures & Parallelism)

- Produced an interactive map of the UW campus in Java which features searching locations, and mapping travel routes
- Created travel routes with the A\* search algorithm to discover the shortest path between two points
- Implemented an autocomplete search engine by using Binary search to look up prefixes in a txt file
- Utilized JavaSpark to implement the backend server, ReactJS for frontend UI, then deployed using Heroku

### Parallel Data Processing and Spark | CSE 344 (DataBase Management)

- Executed queries in a distributed manner and processed data in the cloud using AWS
- Using Spark SQL code in Java, wrote queries on a flight database of domestic flights from 1987 to 2011
- Tested code locally by running cardinality tests using maven before deploying to AWS

## SKILLS

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**Proficient Languages:** Java, Python

**Prior Experience:** C, C++, C#, JavaScript, Html, SQL

**Tools:** Visual Studio Code, Git, Linux, IntelliJ, JavaSpark, ReactJS, Azure, AWS, Heroku, Tableau, Unity

## WORK & VOLUNTEER EXPERIENCE

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### Vietnamese Martyrs Parish Tukwila, WA ~ Catechist

September 2017 – June 2018

- Planned and prepared events for over a hundred students to celebrate their first communion
- Worked with fellow catechists to foster a fun creative environment, encouraging student participation

### Seattle Great Wheel, Pier 57 Seattle, WA

August 2016 – February 2018

~ Platform Assistant, Greenroom Photographer, Alcohol Patrol

- Greeted and communicated with customers to provide customers with a better experience

### Seattle Public Library, Learning Buddies Seattle, WA ~ Tutor

October 2016 – December 2016

- Engaged with children to improve their reading proficiency and literacy skills