

## EDUCATION

### University of Washington (GPA: 3.77)

Seattle, WA

Directly admitted as Computer Science major, Class of 2022

## SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML, CSS

**Platforms/Tools:** Docker, Spark, NumPy, Pandas, React, Android, OpenCV, Django, jQuery

## EXPERIENCE

### SDE Intern | Amazon Lab126

Jun 2020 - Sep 2020

*Optimized data preparation script for feature extraction*

- Utilized **spark** to improve speed by more than 10% when dealing with 500,000+ files to process
- Standardized data prep process by combining the functionality of 2 separate scripts

### Software Developer | DotMote Labs

Jun 2019 - Present

*Implementing scalable workflows for climate change research*

- Spearheaded end-to-end workflow which determines the flowering of a specified region by analyzing satellite imagery data through **image processing** with **NumPy and Pandas**
- 1 of 3 engineers working on <https://sweep.run>, the UI for SWEEP - a scalable workflow tool
- Created a dynamic graph visualization tool to monitor workflows with **sigma.js** libraries
- Co-authored research paper: Detecting Montane Flowering Phenology with CubeSat Imagery <https://www.mdpi.com/2072-4292/12/18/2894>

### Connected and Autonomous Vehicles Team | UW EcoCAR

Jul 2019 - Feb 2020

*Working to design and build a level 2 autonomous vehicle*

- Designed a basic feature extraction algorithm for lane detection in **OpenCV**
- Implemented a python script to run on a Raspi to capture stereo images for depth map

### Computer Programming II Teaching Assistant

Sep 2019 - Mar 2020

*Lead bi-weekly section teaching basic data structures and programming concepts*

### Grace Children's Foundation Volunteer | Impact++

Jan 2019 - Jun 2019

*Web app that connects children in need of medical aid with doctors willing to provide pro bono services*

- Developed extensively in **React** on the search results by organizing output, adding functionality to mark favorite organizations, and linking organizations/people to their respective resource page
- Awarded \$3000 towards the project's cause at Microsoft Hack for good

## PROJECTS

### Spam/Ham Email Filter

Nov 2019

*Naive Bayes classifier which classifies emails as either spam (bad) or ham (good)*

### My Fridge | Google Computer Science Summer Institute

Jul 2018

*Web app that manages fridge inventory and finds recipes based on fridge items and user queries*

- Auto-generated recipes based on fridge foods and implemented a feature to search for recipes
- Rendered templates using **Jinja** and used **Google App Engine** for cloud hosting and data storage