

# KRYSTAL VO

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## EDUCATION

### High School Diploma

Grover Cleveland STEM High School, Seattle WA

Graduation: June 2017 | GPA: 4.23

### B.S. Computer Science,

University of Washington, Seattle WA

Exp. Graduation: June 2021 | GPA: 3.57

## SUMMARY OF QUALIFICATIONS

- Strong **software skills** and **mobile app development** for back end and front end
- Effective leader, speaker and critical thinker with great understanding of **data structures** and analysis
- Experienced programmer in **Java, Python, JavaScript, HTML, React, Git, C/C++, SQL**

## RELEVANT EXPERIENCE

### Integrated Software Projects

Sept 2017 – Current

#### Eye App | Oct 2019:

- Build an Android app that can detect objects, then translate from text to speech for vision-impaired
- Used Google Cloud Vision API to label images and texts (printed) with high accuracy
- Used Firebase as a backend database and Google Machine Learning Kit for the training models

#### Pacman | Oct 2019:

- Implemented AI search algorithms such as minimax, expectimax, alpha beta, DFS, BFS, A\*, Uniform cost search for a pacman program to use

#### UW Map | Jul-Aug 2019

- Created a web server of UW campus where users can choose two buildings, and the shortest road to those buildings will be highlighted
- Implemented a graph and Dijkstra's algorithm from to find the shortest path

#### Color GO! | June 2019:

- Created an Android drawing app such that the user can acquire new colors by moving to a different location
- Uses Google's location context awareness APIs to get snapshots and fences of the information to process

#### Chess Bots | Mar 2019:

- Wrote several implementations algorithms for chess bot to play a simple game of chess
- Used AI searching methods such as minimax and Alpha-Beta to find the best possible move given a depth
- Used both sequential and parallelism to minimize searching time

## ADDITIONAL EXPERIENCE

### Math/Science Tutor

September 2015 - June 2017

- Nurtured students' desire to learn by providing **weekly guidance and instruction** of diverse subjects in mathematics and science
- Subjects include Algebra, Differential Equations, Multivariable Calculus, Statistics, Physics and Chemistry

### Related Coursework

- Data Structures & Parallelism, System & Software Tools, Hardware/Software Interface, AI, Algorithms
- Linear Analysis, Differential Equations, Multivariable Calculus, Matrix Algebra, Probability & Statistics
- In progress: Data Management, Systems