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# Albert Ilwon Seo

## CONTACT

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## SKILLS

**Languages:** Java (4/5), Python (4/5), MATLAB (2/5)  
**Web:** HTML (3/5), CSS (3/5), JQuery (2/5), Javascript (1/5)  
**Software:** Git (3/5), Vim (4/5), LaTeX (4/5)

## LANGUAGES

Korean (Fluent), Japanese (Basic)

## INTERESTS

Violin / Photography / Hamilton /  
Peanut Butter / Adele

## EDUCATION

# University of California, Berkeley (Berkeley, CA) Expected May 2020  
**B.A. Computer Science**  
GPA: 3.76 | Technical GPA: 3.95

**Courses:** Data Structures (61B), Algorithms (170), \*Security (161), \*Operating Systems (162), Machine Structures (61C), Web Design (198-56) (\* In Progress)

# Henry M. Gunn High School (Palo Alto, CA) 2012-2016  
GPA: 3.94

## WORK EXPERIENCE

# Internal Drive Technology (Palo Alto, CA) June - Aug 2017  
**Game Design Instructor**

- Instructed classes of 8 students in game development and Adobe Photoshop
- Created individual lesson plans, handouts and additional curriculum for students
- Assisted students in creating a complete adventure map each week in Minecraft

## PROJECTS

# Gitlet (Java) CS 61B Project

- Implemented a slim version control system that mimics Git's features
- Designed internal data structures and used Java's serializable interface

# Kingdom Conquering (Python) CS 170 Project

- Designed an algorithm to approximate a solution to an NP-Hard problem
- Used NetworkX's API to visualize graphs and approximate Dominating Set
- Created hard graphs with 50, 100, 200 nodes for other groups to solve

# Memoizer Layer (Golang) CS 61C Project

- Created a memoization layer between client and classifier to improve speeds
- Used Goroutines to parallelize requests and improve performance
- Created unit tests to catch errors in cache and classifier implementations

## ORGANIZATIONS

# Berkeley ANOVA Hackathon Team Aug 2017 - Present

- Planning a hackathon for 120 under-resourced high school students
- Facilitated sponsorship with event venue that reduced expected costs by 50%
- Lab-Assisted AP Comp. Sci. classes at under-resourced schools twice a week

# Biofuels Technology Club Filtrations Team Aug 2016 - May 2017

- Designed procedures to filter waste cooking oil used in biofuel production
- Researched filtrations techniques and built a small-scale prototype for test runs