Jason Keung

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Education

University of California, Berkeley **August 2018 - May 2022**

- B.A. in **Computer Science** and B.A. in **Applied Math**
- Relevant Coursework:
  - CS 70 - Discrete Math and Prob. (In Progress), CS 61B - Data Structures (A), CS 61A (A-)
  - Math 54 - Linear Algebra and Differential Equations (A), Math 53 - Multivariable Calculus (A)

International Baccalaureate Diploma **June 2018**

- Higher Level Computer Science - 6 out of 7, Higher Level Mathematics - 7 out of 7

Projects

Algebra Worksheet Generator - *Java, Java Swing*

- Desktop application to generate six-problem worksheets of one-variable equations
- Tracks student progress and adjusts the difficulty of problems generated accordingly

Knight's Tour Algorithm Demonstration - *Java, Java Swing*

- Desktop application that uses an algorithm to complete the Knight's Tour in chess and shows a knight piece visiting all 64 squares of the board
- User is able to control moves per second, and the sequence of moves is shown in the chessboard.

Priority Queue Visualizer - *Java, Java Swing*

- Desktop application developed for a high school teacher to visually demonstrate adding/removing from a binary heap priority queue

Personal Website (jasonkeung.github.io) - *HTML/CSS, Materialize*

- Showcases past projects and hosts links to LinkedIn, GitHub, resume, and email

Work Experience

Academic Intern - *CS 61A, CS 61B* **January 2019 - Present**

- Helped teach 20+ students object oriented programming, recursive problem solving, data structures and algorithms, and graph traversals in lab, office hours, and exam-prep sections
- CS 61A - Spring '19, Summer '19, CS 61B - Summer '19

Taekwondo Instructor - *World Martial Arts Center* **November 2017 - June 2018**

- Worked with 1-2 other instructors to teach Korean martial arts to 20+ children, young teens, and adults
- Developed instructor level leadership and teaching skills over 2 summer leadership programs

Skills

Data Structures and Algorithms

- Fluency in advanced data structures, space/time complexity analysis, and search algorithms over data structures and graphs
- Experience in problem solving, recursive thinking, tree recursion, object oriented programming

GUI Development

- Experience with the Java Swing library, integrated high school CS command line assignments into graphical desktop applications

Java, Python, C++, HTML/CSS

Linux Environments, Git Version Control, Martial Arts Instruction, Math Tutoring