



Alan Lam

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Education

University of California, San Diego

B.S. in Mathematics - Computer Science

Minor in Mathematics Education

2015 - 2019

GPA: 3.4

Skills

HTML/CSS	Java (incl. Android)	Python
C	C++	Racket
Git		

Experience

Computer Science Mentor, Intern
@ThoughtSTEM

June 2018 - August 2018

- Assisted middle and high school students with creating projects using various programming technologies (Racket, virtual reality, Python, HTML, Java)
- Collaborated with ~30 developers on Morugamu, a programming language packaged as a board game
- Generated plots for data visualization of board games on Kickstarter to compare money asked for vs. money received

Math Tutor, Volunteer @Lincoln High School

April 2018 - June 2018

- Assisted high school students in Integrated Math II
- Worked one-on-one with students to help set-up and approach problems involving triangle congruence and similarity

Math Tutor, Volunteer @Preuss School

April 2017 - June 2017

- Assisted high school students in Calculus
- Worked one-on-one with students to help set-up and approach problems involving integrals

Projects

Web Dev For Beginners [HTML/CSS]

- A learning resource website using HTML and CSS
- Wrote tutorials to introduce basic elements of HTML and CSS to beginners

Notepad [Java/Android]

- An Android app of a simple text editor
- Implemented functionality for saving notes to external storage and loading and deleting notes from external storage

Client-Server Messaging [Java]

- A terminal-based messaging application
- Used Java Sockets to implement server and client connections
- Used threads to connect multiple clients and receive/send messages

Intro to CS Tutorials [HTML/CSS]

- A series of interactive tutorials for programming
- Wrote exercises to introduce basic programming concepts to beginners

Bagels [Java/Android]

- An Android app of a simple numbers deduction game
- Designed the layout of each activity and implemented functionality for generating hints, displaying to screen, and saving notes

Snake [Python] (Webroot Hackathon)

- Multiplayer version of the snake game
- Created functions for snake to make smarter decisions against other players