



Education

December 2019

B.S. Mathematics - Computer Science, *UC San Diego*

Minor in Mathematics Education

GPA: 3.4



Experience

January 2019 - Present

Instructor Aide, *Program Your Future*

October 2018 - December 2018

Volunteer Math Tutor, *Morse High School*

Assisted high school students in Power Up Math 1, an elective support course taken in concurrence with Integrated Math 1

Worked one-on-one with students to help them use their prior knowledge to solve problems and recognize patterns

June 2018 - August 2018

Computer Science Mentor, *ThoughtSTEM*

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

April 2018 - June 2018

Volunteer Math Tutor, *Lincoln High School*

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

April 2017 - June 2017

Volunteer Math Tutor, *Preuss School*

Assisted high school students in Calculus

Worked one-on-one with students to help set-up and approach problems involving integrals



Projects

(more at alanlam.netlify.com/projects)

Fall 2018

Intro to CS Tutorials

A series of interactive tutorials for programming

Wrote exercises (in Java, Python, C, C++) to introduce basic programming concepts to beginners

Spring 2018

Web Dev For Beginners

A learning resource website using HTML and CSS

Wrote tutorials to introduce basic elements of HTML and CSS to beginners