Alan Lam

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aln.netlify.com

github.com/alan-lam

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Education

University of California, San Diego

B.S. in Mathematics - Computer Science

Minor in Mathematics Education

Expected Graduation: Dec. 2019

GPA: 3.467/4.0

Awards

- Provost Honors

Skills

- Java (incl. Android)
- HTML/CSS
- Swift
- Matlab
- Python
- C
- C++
- JavaScript
- Git
- Linux

Experience

Tutor | UCSD CSE Department   Jul. 2019 - Present

- Tutor for CSE 7, Introduction to Programming with Matlab
- Working one-on-one with students to guide them through labs and help them understand introductory programming concepts

Instructor Aide | Program Your Future   Jan. 2019 - Present

- Assisting high school students with debugging iOS and Android apps

Teaching Apprentice | Kearny High School   Jan. 2019 - Jun. 2019

- Assisted high school students in Integrated Math 3
- Lead classroom instruction with teacher present in classroom
- Worked one-on-one with students to help them apply what they learn in the classroom to solve in-class and homework problems

Computer Science Mentor, Intern | ThoughtSTEM Jun. 2018 - Aug. 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

Projects

(more at aln.netlify.com/projects)

Notepad [Java/Android]   Github Link

- An Android app of a simple text editor
- Implemented functionality for saving notes locally and locking notes with a password
- Implemented functionality for exporting/importing notes to/from external storage

Notification Reminder [Java/Android]   Github Link

- An Android app that creates reminders in the form of notifications
- Implemented functionality for creating, loading, and deleting notifications

ASL Quiz [Java/Android]   GitHub Link

- An Android app quiz of the ASL alphabet
- Implemented functionality for displaying random images after correct input

Bagels [Java/Android]   GitHub Link

- An Android app of a numbers-deduction game
- Implemented functionality for generating hints, displaying to screen, and saving notes

Web Dev For Beginners [HTML/CSS]   Link

- A learning resource website
- Wrote tutorials introducing basic HTML and CSS to beginners

Intro to CS Tutorials [HTML/CSS]   Link

- A series of interactive tutorials for programming
- Wrote exercises (in Java, Python, C, C++) to introduce basic programming concepts to beginners

Poker [Java]   Github Link

- A terminal-based text game
- Designed gameflow for playing against a computer
- Created functions to rank poker hands

Snake [Python] (Webroot Hackathon)

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