Alan Lam

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Education

University of California, San Diego   Sep. 2015 - Dec. 2019
Bachelor of Science in **Math-Computer Science** | Minor in **Math Education**   GPA: 3.5

Experience

Computer Science Instructor | ThoughtSTEM | San Diego, CA   Sep. 2019 - Present
- Leading after school programs designed to teach students in K-5th grade how to make games
- Employing language-learning tactics, such as memorization and code decomposition, to teach students how to learn programming languages

Computer Science Tutor | UC San Diego | San Diego, CA   Jul. 2019 - Sep. 2019
- Tutor for CSE 7, Introduction to Programming with MATLAB and COGS 18, Introduction to Python
- Guided students through coding labs and assignments
- Improved student understanding of course concepts by creating Jupyter notebooks and PowerPoint presentations for explanations and final exam practice problems

Programming Instructor Aide | UC San Diego Extension | San Diego, CA   Jan. 2019 - Sep. 2019
- Assisted high school students with debugging iOS and Android apps
- Learned Swift and Xcode while the instructor presented the lesson

Computer Science Instructor | ThoughtSTEM | San Diego, CA   Jul. 2019 - Aug. 2019
- Co-led a coding bootcamp designed to teach data science using Racket
- Used language-learning tactics, such as memorization and code decomposition, to help students devise algorithms for analyzing data sets
- Presented coding challenges to increase student engagement

Computer Science Tutor | Self-Employed | San Diego, CA   Jul. 2019 - Aug. 2019
- Tutor for an introductory Java programming course
- Explained ideas from course lecture notes and helped student to think logically by guiding student through programming exercises
- Designed practice problems to help student prepare for the exam

Projects
more at aln.netlify.com/projects

MOBAFire Web Scraper [Python] | GitHub
- A web scraper that grabs League of Legends champion info from the top 3 guides on MOBAFire
- Formats info onto HTML web page and automatically opens in web browser
- Utilized multiprocessing to speed up script execution by ~40%

Notification Reminder [Java/Android] | Google Play Store | GitHub
- An Android app that creates reminders in the form of notifications
- Implemented functionality for creating and deleting notifications from Notification Channels
- Utilized Android's service system to allow notifications to load on phone boot

Notepad [Java/Android] | Google Play Store | GitHub
- An Android app of a text editor
- Implemented functionality for saving/loading notes, locking notes, and importing/exporting notes to local storage

Skills

Java	Python	MATLAB	HTML/CSS	C	C++	JavaScript
	Git		Android		Linux	