

Education

University of California, San Diego

Dec. 2019

Bachelor of Science in **Math-Computer Science** | Minor in **Math Education**

GPA: 3.5

Skills

Languages: Python Java HTML CSS JavaScript MATLAB C C++ SQL C#
Tools/Frameworks/Libraries: Git Unity Android Linux Node.js MongoDB pandas Flask React Flutter

Experience

Software Engineer | Edthena

Jul. 2020 - Present

- Using Jest to write backend tests for the Edthena platform

Software Consultant | Foundry College

Jul. 2020 - Present

- Building out the DevOps Tool UI for Foundry's Forge platform
- Assisting students with resolving technical issues on the Forge platform

Game Developer | Creative Wisdom Games

Jun. 2020 - Present

- Designing and building mini-games to expand the existing collection of mini-games for Pearls of Wisdom

Computer Science Instructor | ThoughtSTEM

Jul. 2019 - Mar. 2020

- Taught ~80 K-5th students in after school programs how to make games in Racket
- Co-led a data science bootcamp of ~30 high school students
- Employed language-learning tactics to teach students how to learn programming languages

Computer Science Tutor | University of California, San Diego

Jul. 2019 - Sep. 2019

- Tutored for CSE 7, Introduction to Programming with MATLAB and COGS 18, Introduction to Python
- Worked with ~20 students on a weekly basis to guide them through coding labs and assignments
- Improved student understanding of course concepts by creating resources for explanations and final exam practice problems

Programming Instructor Aide | UC San Diego Extension

Jan. 2019 - Sep. 2019

- Assisted high school students with debugging iOS and Android apps

Projects

more at aln.netlify.app/projects

Pearls of Wisdom [Unity, C#]

- A mobile app designed to educate and entertain children
- Designed and built Whack-a-Clam, Seagull Search, and Simon Says mini-games

FF@15 [React] | ff-15.netlify.app | github.com/alan-lam/FF-15

- A web application that allows users to search up League of Legends player info
- Utilized the Riot Games API to gather information for player profiles and match statistics
- Created Python scripts to extract JSON data and automate image compression

Createests [Node.js, MongoDB] | createests.herokuapp.com | github.com/alan-lam/Createests

- A web application that allows users to create collections of flashcards
- Implemented password-checking functionality for editing flashcard questions and answers

MemeBot [Python] | github.com/alan-lam/MemeBot

- A Discord bot that allows users to add text to an image with a single message to the chat