
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++

Tools/Frameworks/Libraries: Git, Android, Linux, React, Node.js, MongoDB, jQuery, pandas

Projects

more at al.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
- Designed a simple GUI and implemented automatic web page formatting to make it easy to use
- Utilized multiprocessing to speed up script execution by ~40%

CreateTests [Node.js, MongoDB] | <https://createTests.herokuapp.com/> | [GitHub](#)

- A web application that allows users to create flashcards
- Designed a RESTful API to get tests and update test questions

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

Experience

Computer Science Instructor | ThoughtSTEM | San Diego, CA

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
- Designed lesson plans to increase student engagement and learning
- Employed language-learning tactics to teach students how to learn programming languages

Computer Science Tutor | UC San Diego | San Diego, CA

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 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 Tutor | Self-Employed | San Diego, CA

Jul. 2019 - Aug. 2019

- Tutored 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 final exam

Computer Science Mentor | ThoughtSTEM | San Diego, CA

Jun. 2018 - Aug. 2018

- Worked with ~50 middle and high school students on a weekly basis to debug Racket applications
- Collaborated with ~30 developers on Morugamu, a programming language packaged as a board game
- Analyzed Kickstarter data to determine the relationship between money asked for and money received on board games