
Education

University of California, San Diego
Bachelor of Science in **Math-Computer Science** | Minor in **Math Education**

Dec. 2019
GPA: 3.5

Skills

Languages: Python, Java, HTML, CSS, JavaScript, MATLAB, C, C++, SQL

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

Projects

more at al.netlify.app/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 user-friendly
- Packaged script as a Windows executable to distribute as a portable application
- Utilized multiprocessing to speed up script execution by ~40%

Summoner-Stats [Python, Flask] | <https://summoner-stats.herokuapp.com/> | [GitHub](#)

- 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 advanced statistics for individual games

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

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

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 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