

BRANDON ELIJAH LE

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Education

University of California, San Diego

January 2024 – December 2024

M.S. **Computer Science** - Depth in Artificial Intelligence

University of California, San Diego

October 2020 – December 2023

B.S. **Computer Science** - 3.74 GPA

Courses: Advanced Data Structures & OO Design, Computer Organization & System Programming, Software Engineering, Design & Analysis of Algorithms, Computer Security, Machine Learning, Linear Algebra, Recommender Systems

Experience

UC San Diego Computer Science & Engineering Department

San Diego, CA

Teaching Assistant

Sept 2021 – Present

- Guided hundreds of students, strengthening their foundation in key courses such as Data Structures, Object-Oriented Design, and Intro to Programming, through dedicated mentorship and detailed explanations.
- Facilitated individualized learning experiences in one-on-one tutoring sessions, resulting in improved student comprehension of complex concepts and refined problem-solving skills..
- Collaborated with faculty, contributing to curriculum development and the continuous improvement of instructional methods, thereby driving the program's reputation for excellence.

TriDev - UC San Diego

San Diego, CA

Software Engineer

January 2022 – April 2022

- Steered a high-performing team of five, resulting in the successful delivery of **UCSD RideShare**, an end-to-end web app project, by prioritizing tasks and ensuring effective collaboration in a competitive quarter-long program.
- Earned **1st place** recognition, highlighting superior project management and software development competencies, by leveraging effective team collaboration in a rigorous competition..
- Championed **Agile methodologies**, enhancing the efficiency and alignment of the team's development process, through facilitating weekly meetings, sprint-planning sessions, and tracking project milestones.

La Jolla Elementary School

San Diego, CA

Computer Science Course Instructor

January 2022– May 2022

- Spearheaded an after-school program for elementary students, resulting in enriched fundamental computing knowledge among students, by translating complex concepts into simple terms tailored to their understanding level.
- Devised and rolled out a progressive curriculum, establishing foundational skills through platforms like Google's CS First and Scratch, and then transitioning to more advanced Python programming.

Projects

San Diego Zoo Seeker

San Diego, CA

Android Application

March 2022 – June 2022

- Leveraged **Android Studio**, resulting in a dynamic application that efficiently interprets JSON files, by extracting detailed information about various zoos and their exhibits..
- Solved a practical routing problem by innovating a custom algorithm influenced by the **Traveling Salesman Problem (TSP)**, ensuring users receive the most efficient route.
- Collaborated within a team of six, contributing as a full-stack engineer to the mobile app's complete development, as a significant component of a UCSD course.

UCSD RideShare

San Diego, CA

Web Application

January 2022 – March 2022

- Orchestrated the creation of a community-driven web application, promoting eco-friendly transportation and actively contributing to a reduction in carbon footprint within the UCSD community.
- Engineered a robust backend with **SQL** and **Python** and designed an intuitive frontend using **HTML/CSS**. The harmonious integration of both was achieved using **Flask**, ensuring a seamless user experience.

Languages: C++, C, Python, Java, JavaScript

Technologies: Git, Bash, Android Studio, Flask, Figma, SQL