

Robert Espinoza

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WORK EXPERIENCE

MessageBot

Feb. 2019 – Present

Team Member

San Diego, CA

- MessageBot is a technology-based startup, with the goal of creating equipment aimed at combatting hair loss.
- As a mathematics and computer science team member, I oversee our coding and algorithm strategies, potential optimizations, and offer new insight.

PROJECT EXPERIENCE

Rubik's Cube Solver

Nov. 2019 – April 2020

C++, Python3

- Developed a program to optimally solve a Rubik's cube.
- Explored various ways of reducing the search space of solutions, using group theory in mathematics and search algorithms.

Android Food Application

Sep. 2019 – Jan. 2020

Java, Firebase

- Senior Systems Analyst for a group project building an Android application centered around food reviews.
- Utilized Firebase technologies for database problems and Android Studio for development.

Machine Learning Simulation

Python3, SageMath

- Developed a program that utilizes machine learning to make predictive models in baseball statistics.

MATLAB Simulation

MATLAB

- Developed a program that simulates the projectile motion of a soccer ball under the influence of backspin.

EDUCATION

University of California, San Diego

June 2020

BS, Mathematics-Computer Science

La Jolla, CA

SKILLS & INTERESTS

- **Skills:** Working knowledge of Git, Firebase, shell scripting.
- **Languages:** C++, Python3, C, SageMath, Java, HTML/CSS, JavaScript, MATLAB