

# Robert Espinoza

rbespinoza96@gmail.com ❖ robertbespinoza.me ❖ (661) 753-6100 ❖ San Diego, CA

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## WORK EXPERIENCE

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### MessageBot

Feb. 2020 – 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

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### 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

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### University of California, San Diego

June 2020

*BS, Mathematics-Computer Science*

*La Jolla, CA*

## SKILLS & INTERESTS

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