

# RACHEL LEE

COMPUTER SCIENCE UNDERGRADUATE

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## Objective

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Dependable and motivated to gain experience in creating solutions and memorable moments in a collaborative community, while also incorporating my passion for technology and adaptability in fast-paced environments.

## Education

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**UNIVERSITY OF CALIFORNIA, BERKELEY** – GPA: 3.5

Berkeley, CA | 2019-2022

- Recipient of Regents' and Chancellor's Scholarship
- *Activities:* Regents' and Chancellor's Scholars Association, Sigma Phi Omega Fundraising Chair

**HERITAGE HIGH SCHOOL** – GPA: 4.2

Brentwood, CA | 2015-2019

- *Activities:* Robotics Club FTC Team 3470 President, RC Car Club, MIT Launch Club, Varsity Tennis Captain, National Honor Society, California Scholarship Federation

## Professional Experience

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**TUTOR – KUMON MATH AND READING**

Brentwood, CA | November 2018 – August 2019

- Developed students' confidence by clarifying mathematical and reading concepts and applied effective learning strategies to improve study skills and retention.
- Instructed roughly 50 children daily and specialized in assisting students with learning challenges such as ADHD and autism.

**GROUP LEAD VOLUNTEER – UC BERKELEY GIRLS IN ENGINEERING**

Berkeley, CA | July 2018

- Encouraged about 60 young middle school girls to explore different fields of engineering by building 3D printed prosthetic hands, explaining practicalities of self-driving cars and demonstrating creative projects of biomimicry.
- Resolved conflicts among team members and worked with female graduate students and professors to share insight of experiences in the STEM career field and progress of their current research projects while also visiting facilities such as the BAIR Lab.

## Leadership Experience

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**PRESIDENT – ROBOTICS CLUB FTC TEAM 3470**

Brentwood, CA | August 2018 – June 2019

- Managed engineering notebook, outreach events, build sessions, and mechanical and software engineering of robot.
- Created budget plans, handled finances, and fundraised over \$5000 throughout the team's season.
- Efficiently delegated tasks among team members and fostered a collaborative, learning environment.
- Won the FTC Control Award at Folsom tournament for most accurate and consistent autonomous programs and sensors.
- Volunteered in FRC championship tournaments to help facilitate field setups in teams.

**CFO – MIT LAUNCH CLUB**

Brentwood, CA | September 2018 – May 2019

- Collaborated with team to brainstorm an environmentally sustainable product idea to resemble a start-up environment.
- Created budget displays and financial trajectories for the team's product and modeled a digital prototype using CAD.
- Competed with other bay area schools as regional finalists and presented idea to a panel of judges.

## Skills

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### Java

Developed software for autonomous robot using Android Studio.

### Python

Created multiple projects utilizing tree recursion and data abstraction.

### OpenCV

Optimized color and shape detection in phone camera to enhance object recognition.

### CSS / HTML

Constructed and personalized a website integrated with Google Analytics to track activity.

### SQL

Constructed simple database tables by retrieving and manipulating data.

### Scheme

Programmed a scheme interpreter in python with tail recursion optimization, lazy evaluation, and streaming.