Computer Science Undergraduate

RACHEL LEE

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Objective

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 stressful environments.

Skills

Java
Developed software for autonomous robot using Android Studio.

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

Swift
Designed apps for IOS devices adaptable across multiple platforms.

Python
Created multiple projects utilizing tree recursion, data abstraction and SQL.

CSS / HTML
Constructed and personalized a website.

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

Professional Experience

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 students' study skills and retention.
- Personally worked with students with learning challenges such as ADHD and autism.

GROUP LEAD VOLUNTEER – UC BERKELEY GIRLS IN ENGINEERING – Berkeley, CA | July 2018

- Encouraged young girls explore different fields of engineering as a group leader for two weeks in the Girls in Engineering program.
- Built 3D printed prosthetic hands, explained practicalities of self-driving cars and demonstrated creative projects of biomimicry.

Leadership Experience

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.

TEAM CAPTAIN – VARSITY TENNIS – Brentwood, CA | June 2014 – June 2019

- Helped supervise team practices and physical conditioning while also fostering a positive environment among the team members.
- Fundraised over $1000 and facilitated the team's spending during the summer and fall season.
- Won 4th place at BVALS Championship and 3rd place at Freedom High School Tournament.
- Designed team uniforms and managed senior day events and planning.

Education

UNIVERSITY OF CALIFORNIA, BERKELEY – Computer Science Undergraduate   Berkeley, CA | 2019-2023

- Recipient of Regents' and Chancellor's Scholarship and member of Regents' and Chancellor's Scholars Association

HERITAGE HIGH SCHOOL   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