

Roshni Vakil

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ENGINEERING STUDENT ASPIRING TO MAKE A POSITIVE IMPACT ON THIS WORLD

Education/Academic Achievements

California Polytechnic State University, San Luis Obispo (Sept 2020 - Present) - BS in Computer Science

- **Cumulative GPA:** 4.0
- **Notable Classes**
 - Freshman Year: Introduction to Computing (CPE 123), Calculus II, Public Speaking

Dublin High School (Aug 2016 - May 2020) - High School Diploma

- **Cumulative High School GPA:** 4.22
- **Engineering Academy**
 - Selected as 1 of 26 students in Dublin High's Engineering Academy 2020 Cohort for Computer Science. Took one engineering/computer science class each school year and participated in a mentorship program with an industry mentor in 11th grade.
- **Notable Classes**
 - Senior Year: PLTW Honors Digital Electronics, AP Calculus BC
 - Junior Year: PLTW AP Computer Science A, AP Calculus AB, AP Chemistry, AP Language & Composition
 - Sophomore Year: PLTW Honors Principles of Engineering, AP Statistics, Honors Chemistry
 - Freshman Year: PLTW Computer Science/Software Engineering, Intro to Digital Art

Clubs/Extracurricular Activities

California Polytechnic State University, San Luis Obispo (Sept 2020 - Present)

- **Society of Women Engineers (Oct 2020 - Present)**
 - **Freshman Representative** (Dec 2020 - Present)
 - **Team Tech Subgroup Leader** (Oct 2020 - Present)
 - Organize and lead weekly subgroup meetings
 - Interface between the Team Tech Board and subgroup to ensure that the device being designed and its corresponding deliverables for our industry sponsor, Mazzetti, are completed in a timely manner and in a way that works with each of the other subgroups

Dublin High School (Aug 2016 - May 2020)

- **Gael Force Robotics Club (Sept 2016 - March 2020)**
 - 2019 - 2020 (Senior Year): **Team 5327V - Season Cut Short Due to COVID-19**
 - 2018 - 2019 (Junior Year): **Team 5327R - Competed in 2019 VEX World Championship**
 - Served as builder and head programmer
 - Mentored incoming robotics club members
 - 2017 - 2018 (Sophomore Year): **Team 5327C - Competed in 2018 VEX World Championship**
 - Served as builder
 - 2016-2017 (Freshman Year): **Team 5327A - Competed in 2017 VEX State Championship**
 - Served as builder
- **Girls Who Code Club (Sept 2018 - March 2020)**
 - 2019 - 2020 (Senior Year): **President**
 - Was in charge of designing activities to teach web development to 9th-12th graders
 - Headed bi-weekly club meetings where activities and lessons took place
 - 2018 - 2019 (Junior Year): **Event Director**
 - Helped teach web development during bi-weekly meetings to 9th-12th graders
 - Helped organize and run workshops during a promotional hackathon for 6th-9th graders

Programming Skills

Java, HTML, CSS, Python, p5.js

Volunteering

Dublin Senior Center - Dublin, CA (June 2019 - March 2020)

- Served meals prepared by Open Heart Kitchen to local seniors

Open Heart Kitchen - Pleasanton, CA (Jan 2019 - Sept 2019)

- Prepared food for local seniors, veterans and homeless at Ridgewood Commons Senior Center and Valor Crossing

Fertile Groundworks (Garden of Grace) - Livermore, CA (Feb 2018 - April 2018)

- Garden worker at a community garden devoted to growing food for local seniors, veterans and homeless

Awards

CPS Cal Poly Merit Scholar Award

- In recognition for being a Class of 2020 National Merit Finalist

High School Robotics Awards:

- Design Award at 2019 California VEX VRC High School State Championship - Sacramento
- Tournament Finalists (VRC/VEXU) Award at 2018 Tracy Triangle VEX Robotics Tournament
- Excellence Award at 2017 Bellarmine Bay Area VEX Robotics Tournament
- Tournament Finalists Award at the 6th Annual Central Valley Starstruck Tournament (2016)

2017 Alameda County Science Fair

- Designed a device that effectively neutralized acid rain showing that acid rain can be a useful water source if properly and efficiently neutralized
- Placed third for the high school section, category MENG (Mechanical Engineering and Instruments)

2017 DHS Entrepreneurship Competition Showcase

- Designed and programmed an arduino water alarm capable of detecting leaks in water faucets and alerting anyone in the vicinity of the water wastage
- Placed Third in the Engineering Class

Other

Optimistic, Logical, Cooperative/Collaborative, Persistent, Curious