

Roshni Vakil

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ENGINEERING STUDENT ASPIRING TO MAKE A POSITIVE IMPACT ON THIS WORLD

Education/Academic Achievements

Engineering Academy, Dublin High School

One among 26 students in DHS Engineering Academy 2020 Cohort for Computer Science

2020 National Merit Scholarship Semifinalist

Notable Classes - Dublin High School

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

Cumulative High School GPA: 4.28

Internship

Enclique

Summer 2019: Software Development Intern

- Researched and developed key features of Enclique's java based Android app offering

Summer 2018: Software Development Intern

- Researched and developed initial prototype of Enclique's Android app offering

Clubs/Extracurricular Activities

Gael Force Robotics Club, Dublin High School

- 2019 - Present (Senior Year): **Team 5327V**
- 2018 - 2019 (Junior Year): **Team 5327R - Competed in 2019 VEX World Championship**
 - Served as programmer and builder
 - 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, Dublin High School

- 2019 - Present (Senior Year): **President**
- 2018 - 2019 (Junior Year): **Event Director**
 - Organize and conduct Girls Who Code club events at Dublin High
 - Taught 6th - 9th graders lessons on web development

Programming Skills

Java, HTML, CSS, Python, Unix, Windows

Volunteering

Dublin Senior Center - Dublin, CA

Serve meals prepared by Open Heart Kitchen to local seniors

Open Heart Kitchen - Pleasanton, CA

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

Fertile Groundworks (Garden of Grace) - Livermore, CA

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

Other

Persistent, Curious, Logical, Cooperative/Collaborative, Optimistic

Test Scores

- SAT: 1540/1600 (Math: 750, English: 790)
- Chemistry SAT Subject Test: 760/800
- Mathematics Level 2 SAT Subject Test: 800/800
- Junior PSAT/NMSQT: 1500/1520
- AP Statistics Exam: 5/5
- AP Calculus AB Exam: 5/5
- AP Chemistry Exam: 5/5
- AP Language and Composition Exam: 4/5

Awards

2018 - 2019 (Robotics)

- Design Award at 2019 California VEX VRC High School State Championship - Sacramento
- Judges Award at Signature Event: Google VEX Turning Point High School Tournament
- Judges Award at Vanden Robotics Turning Point (HS Only) Tournament
- Design Award at Dougherty Valley High School VEX Robotics Tournament

2017 - 2018 (Robotics)

- Tournament Semi Finalists Award at 2018 California VRC High School State Championship - Northern California
- Robot Skills 2nd Place (VRC/VEXU) Award at Bay Area Last Chance Skills Challenge
- Tournament Finalists (VRC/VEXU) Award at Tracy Triangle VEX Robotics Tournament
- Excellence Award at Bellarmine Bay Area VEX Robotics Tournament

2016 - 2017 (Robotics)

- Tournament Finalists Award at the 6th Annual Central Valley Starstruck Tournament

2017 Alameda County Science Fair

- Designed a device that effectively neutralized acid rain proving 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