

Katherine Gan

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EDUCATION

Dougherty Valley High School, San Ramon, CA

Expected graduation, Jun 2019

- Cumulative GPA Unweighted: 3.87
- Cumulative GPA Weighted: 4.29
- SAT (Grade 11): 1480 | Reading/Writing: 700 | Math: 780
- PSAT/NMSQT (Grade 11) Composite: 1390 | Reading/Writing: 650 | Math: 740
- Notable Classes: AP Calculus BC, AP Spanish Language, AP Physics C, AP English Language, AP Calculus AB(5), AP English Literature and Composition(4), AP Computer Science A, AP World History(3), Honors Precalculus w/ Trigonometry, Honors Chemistry, Honors Physics, Honors Spanish 4

Yale Young Global Scholars Program, New Haven, CT

Jul 2017

- Part of the Applied Science and Engineering Program
- Worked through simulations depicting real events (Mission to Mars), built model rovers
- Designed and presented a method to reduce civilian casualties caused by drone warfare
- Worked with Yale alumni and professors
- Attended lectures taught by professors and researchers on engineering advancements

California State Summer School for Math and Science (COSMOS), San Diego, CA

Jul 2018 - August 2018

- Part of the Engineering Design and Control of Kinetic Sculptures cluster
- Designed and fabricated a working pendulum clock
- Worked with programs such as Inventor, AutoCAD, Working Model 2D
- Learned RobotC programming for NXT
- Constructed a full-size autonomous kinetic sculpture

HONORS AND AWARDS

Yale Young Global Scholars Program

- National | Grade 10-11 |

Finalist in Business Law and Ethics Team Decision Making

- State/Regional | Grade 9 |

Presidential Volunteer Service Award Gold Medalist

- National | Grade 10 |

6th Place in Science Olympiad Competition

- Regional | Grade 11 |

JV Tennis Best Singles Player

- Regional | Grade 9 |

Principal's Academic Excellence Award

- Regional | Grade 9 |

North Coast Section Tennis Tournament 2nd Place

- State/Regional | Grade 11 |

CIF State Championships Qualifier

- State | Grade 11 |

North Coast Section Tennis Tournament 3rd Place

- State/Regional | Grade 10 |

Golden State Tennis Classic 7th Place

- State/Regional | Grade 10 |

AP Scholar

- National | Grade 11 |

Scholar Athlete

- Regional | Grade 10 |

WORK EXPERIENCE

EDU Express, San Ramon, CA

Instructor and teacher's assistant, Jun 2016- Aug 2017

- Paid instructor of various subjects for children in the camp to strengthen academic and lifestyle skills and prepare students for their upcoming grade level.
- Taught young students the fundamental skills of tennis.
- Created and instructed a lesson on the subject of culinary arts to groups of students.
- Assisted other teachers in helping students with their assigned tasks.
- Led children on field trips to various locations.

City of San Ramon Parks and Community Services, San Ramon, CA

Volunteer and Leader in Training, Jul 2016- Aug 2016

- Volunteer for various camps in the Contra Costa County to engage participants in activities being held.
- Organized student files and examined injuries for treatment.
- Set up daily activities and helped run the program.

Youth Competitive Programming Circle

Intern in Advanced Web Development, Oct 2015- Mar 2016

Staff/Intern in Grants and Fundraising, Jun 2016- Dec 2016

- Created educational coding videos on the language of PHP.
- Made practice tests and answer keys for individuals learning the courses.
- Created activities in the subject of PHP to help enhance the learning and further solidify the subject for users.
- Went to various popular locations to discuss fundraising and set up fundraisers.
- Sent emails to large companies to apply for grants to help boost the organization.

COMMUNITY SERVICE AND VOLUNTEERING

Presidential Volunteer Service Award Bronze Medal, 2015

- 50+ hours of volunteering for the Youth Competitive Programming Circle, California Scholarship Federation, as well as other small clubs and organizations to assist students and help around in the community.

Presidential Volunteer Service Award Gold Medal, 2016

- 100+ hours of volunteering for the City of San Ramon, Youth Competitive Programming Circle, California Scholarship Federation, and many other small clubs and organizations to assist other students and create educational courses while helping out in the community.

National Honor Society, 2017-present

- Selected to be part of the National Honor Society club at Dougherty Valley High School. Volunteer in numerous events which benefit the community as a whole.

LEADERSHIP

Staff at Youth Competitive Programming Circle, 2016

- Staff member of a state-wide non-profit organization funded by Microsoft, Slack, and Github, designed to encourage coding literacy in youth. Initiated and directed the expansion of a local internship program for all high-school youth in the Contra Costa County. Conducted interviews for the interns and set up meetings to coordinate the tasks that needed to be completed.

CLUBS

Science Olympiad, 2015 - 2018

- Building Captain for the Science Olympiad Club at Dougherty Valley. Create schedules and direct building events to remind members of upcoming deadlines for their individual contest. Participate in 3-4 events and study throughout the year for the annual competition held at California State University.

Science Alliance, 2016- 2018

- Activities officer and mentor for the Science Alliance club at Dougherty Valley. Assist elementary students from different schools in the community to help them put together a project for their upcoming science fair.

National Honor Society, 2017-2018

- An active member and on track to be a 100% lifetime member. Volunteered in various activities from tutoring to assisting International Festivals.

National History Day, 2017-2018

- Treasurer for the National History Day club at Dougherty Valley. Manage club funds and help guide club members to be prepared for the annual competition.

California Scholarship Federation (CSF), 2015 - 2018

- An active member and on track to be a 100% lifetime member. Volunteered in various activities from tutoring to assisting International Festivals.

Technovation, 2015 - 2017

- Team Representative for the Technovation club at Dougherty Valley. Create apps using languages such as Xcode, Swift, and C# to participate in the annual Technovation Challenge, as well as a business plan to present and explain how the app works.

Distributing Education Club of America (DECA), 2015 - 2016

- Attended prep sessions throughout the year while preparing for the competition in January. Competed in the Business Law and Ethics Team Decision Making event at the Northern California Career Development Center, and was a finalist in the roleplay section of the event.

Project SmARTs, 2015 - 2016

- Volunteered at different workshops hosted by elementary schools to interest students in the subjects of art and music.

ARTS AND MUSIC

Violin, 2007 - 2016

- 1st violin of the Dougherty Valley High School Orchestra. Performed in local recitals, community events, as well as on tour (Disneyland, Great America, Art & Wind Festival).

ATHLETICS

Varsity Tennis, 2016-present

- Team Captain (2018). Relay important information from coach to team. Manage fundraisers and organize uniforms/spirit wear. Maintain team morale.
- Competed in doubles in the Golden State Tennis Classic, Battle of the Bay tournament, and qualified for the North Coast Section tournament. Helped to organize school pride events, and run other team fundraising events and programs. State qualifiers in the 2017-2018 season.

JV Tennis, 2015–2016

- Received the Dougherty Valley Athletic Award for the “Best Singles Player.” Competed against other schools around the bay area as the #1 singles player.