Kasvi Singh

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Hello!

My dream is to pursue a career in the STEM field, but more specifically combine my passion for biology, math, computer science, and engineering. The possibilities for innovations in the medical field is endless; I want to be a part of positive change.

I am a quick learner who is always aspiring to grow. My passionate, persuasive, and persistent personality strives me to achieve my best. New experiences, exposures and opportunities boost my confidence and knowledge. My drive for my passion is deeply rooted from my inner curiosity. I love questions as I am always the student asking questions, completing curiosity projects, or spending hours researching to find answers. My curious characteristic has opened many doors into the vast field of STEM education. I am a diligent, self driven student with strong collaboration, organizational and communication skills. From leading various groups to successful outcomes whether it be for school projects, or clubs I have learned to work in team environments. Most importantly I discovered the ability to remain calm under stressful times. My rigorous academic course-load has developed my excellent time management skills by doing everything with the best of my ability.

I would be so grateful to have this opportunity as it would help me accomplish my dreams. I am always looking for ways to grow and to find my path.

To highlight my skills and experiences, I have attached my resume below which deeply outlines my expertise, previous projects and involvement in my community.

Thank you so much for your time and consideration! I look forward to the opportunity to present myself.

Sincerely,
Kasvi Singh

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RESEARCH

NASA SEES Research Internship (June 2020 to August 2020)

- Selected as 1 of 60 students out of over 600 US applicants for the NASA STEM Enhancement in Earth Science Internship in the Mosquito Habitat Mapper group.
- Conducted 150 hours of intensive research on mosquito habitats in the County of San Mateo by collecting data and analyzing NASA satellite outputs, presented findings to NASA scientists and other interns.

The Effect of Temperature on DNA Extraction (November 2019 to December 2019)

- Independently pioneered a research project consisting of multiple trials where I intensively studied the effect temperature has on DNA extraction of a strawberry. Presented findings to the entire class and teachers.

PROJECTS

COVID4KIDS (June 2020-Present)
Highly interactive game educating children about the coronavirus Covering the topics of handwashing, the importance of masks, social distancing, symptoms, and the spread/start of coronavirus

CoronaAid (June 2020-June 2020)
An efficient website providing resources such as unemployment centers, food banks, and hospitals testing centers for those economically affected by the pandemic based on real-time location, received second place at vmware hackathon

Haptic Directions (May 2019-September 2019)
A backpack with navigational straps which vibrate to give turn by turn directions. Tailored towards visually impared and hard of hearing. Collaborated with Oracle Education Foundation; This project was featured in Oracle OpenWorld, San Francisco and presented to 150 hiring executives from all over the US.

Sunny (January 2020)
Wearable technology used to detect heat stroke early in children and pets, received first place at Pixel Hacks

Random Walks on Circular DNA (July 2019)
An extensive python coded project that simulates any 1D, 2D and 3D random walks in DNA. Includes features of converting DNA to RNA. Developed through COSMOS Biophysics and Robotics program, guidance from UC Davis professors

Communitree (February 2019- October 2019)
Interactive art installation symbolizing community for San Francisco Design Week and Oracle Women's Leadership Tech Fest; keen member of tech team

IoT Smart Collar (January 2019)
Smart cat collar that monitors the cat's heart rate and keeps up the cat' exercise through lasers, built using arduino and node red to create efficient dashboard

Water Gun Intruder Detector (June 2018- August 2018)
A motion activated water gun that shoots a person at the door, alerts you through text, takes a picture and uploads it onto twitter/social media.

T-Bot (February 2017- May 2017)
An efficient and speedy robot with the ability to fold any t-shirt and sweater with the press of a button; created with C++ and EV3. This was featured in the SF Maker Faire 2017

AWARDS

Amey Shaw Passion for Science
Only awardee of award in recognition of science project, the studying effects of antibacterial soap.

Model UN Awards
Honorable Mention at Harvard Model Congress, Outstanding Delegate at SF Model UN, Research and Honorable Mention at Berkeley MUN

Landucci Academic Excellence
1 out of the 4 receipts selected form over 352 students for my achievement in all my acamedica classes, remains straight A's for three years

Spirit and Block B Award
1 out of the 2 receipts selected from over 352 students for my active leadership dedication towards school

Math Olympiad Highest Individual Scorer
Highest score within academic team toward math olympiad and top 1% overall

Science Award Recipient
Only recipe out of 352 candidates of Science Award recognized for my passion towards subject

EDUCATION

Design Tech High School, Redwood City, CA Current Grade: Junior Graduation Year: 2022
Unweighted GPA: 4.00 | **Weighted GPA:** 4.40 | **Relevant Courses**: Advanced Statistics, Advanced Honors Physics, Honors Biology, Honors Chemistry, Algebra 2, Internet of Things, Prototyping, Introduction to Data Science
Activities: Girls Who Code Club (founder), Model United Nations Team (director of education), d.hacks (co-founder), Leadership (co-president), National Honor Society (vice-president), Math Club (math competition founder), First Robotics Team 5940 (programmer), Innovation Diploma, Teacher Assistant for Oracle Education Foundation, Rock the Street Wall Street (protegee)

College of San Mateo, San Mateo, CA | Classes taken through concurrent enrollment
Relevant Courses: Analytic Geometry/Calculus I, Analytic Geometry/Calculus II, Computer Science, Precalculus, Analytic Trigonometry, Introduction to Web Programming, Introduction to Business, Physical Geography

VOLUNTEER

County of San Mateo Office of Education (July 2020- Present)

- **Student Advisory Board Member** Implementing action oriented change towards my community to improve livelihood
- **Youth-Led Participatory Action Research Intern** Conducted inventive internship focusing on social issues occurring within my community. Developed HELLO an interactive website dedicated to reimagine education that strives to positively impact student education

Red Cross Youth Event Lead (June 2020 - August 2020)

- Organized 15+ virtual events to educate high school students about the red cross, fundraising, and current disasters through a variety of platforms in order to create engaging content

San Mateo Public Library Volunteer (June 2018- Present)

- assisted librarians with story-time weekly through greeting families, and logistics
- facilitated a variety of art and crafts along with STEAM workshops for kids
- active summer reading program volunteer where I educated, answered question and signed kids for the program

SKILLS

★ Self driven and determined individual who always get the job well done
★ Lifelong and fast learner always taking opportunities to grow
★ Successfully handles any challenges
★ Team player, with strong collaborative and communication skills
★ Strong data analytical skills
★ Well versed in principles and processes of design thinking
★ Knowledgeable in computer science languages: HTML, CSS, JavaScrip, Python, C++, C and Java

INTERESTS

Design Thinking • Problem-Solving • Leadership • Science • Engineering • Artificial Intelligence • Technology • Biomedical • Mathematics • Research • Data Science