Ishan Dogra

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Education

University of California, Berkeley **May 2024**

Mechanical & Aerospace Engineering B.S. **GPA: 3.7**

Relevant Coursework: Thermodynamics, Three-Dimensional Modeling for Design, Linear Algebra and Differential Equations, Physics: Heat, Electricity, and Magnetism, Programming in MATLAB, Solid Mechanics

Professional Experiences

Berkeley Haas: Technology Solutions **Berkeley, CA**

Student Consultant April 2022 –Present

- Laptop support, mobile support, malware security, assist in lab equipment use, maintenance of lab equipment
- Assist faulty with presentations and facilitate meetings

GoPeer **Berkeley, CA**

Academic Advisor October 2021 - Present

- Educating 20 different students throughout the country in 5 subjects including various AP sciences, calculus, AP Music Theory, and test prep
- Initiated work on new interfaces to improve tutor-tutee interaction, ie. screenshare with audio capability

Fairfax County Park Authority **McLean, VA**

Customer Service Manager August 2020 – August 2021

- Assisting 100s of customers weekly in their recreational endeavors through the pandemic
- Managed purchases and refunds – communicated between customers and IT management to implement changes to improve website UI improving satisfaction by 20%
- Oversaw training of 3 new front desk employees over 6 months

Extracurriculars

Cal Space Technologies and Rocketry **Berkeley, CA**

Propulsion Engineer and Business Lead October 2021 - Present

- Conducting liquid fuel research to test and construct optimal launch system for both the purpose of competition as well as an eventual space shot. Use of SolidWorks to engineer parts to support servo motors in hydrotesting.
- Supported in the organization of funding effort to ultimately secure over $12,000 in the fall 2021 semester from company and individual sponsors (including Boeing)

Future Business Leaders of America - Phi Beta Lambda (PBL) **Berkeley, CA**

Technology Analyst February 2022 - Present

- Designing PBL organization website; front-end and back-end web development
- Implementing data analytics manipulate/track social media data from json files & display in Jupiter notebooks
- Developing entrepreneurship mindset + skills

Virginia Space Coast + Aerospace Science and Technology Scholars **Wallops Flight + Langley Research**

Scholar 2018-2020

- Admitted into a select academy program in which scholars complete research and scientific analysis around the topic of space exploration
- With a team of students, navigating and designing all aspects of an exploration mission from budget and launch vehicles to scientific instruments and goals that ultimately needed to be presented to NASA
- Gained a holistic understanding of project management as well as the technical aspects of orbital calculations

Skills & Interests

Computer Programs: Microsoft Office, Adobe Photoshop, SolidWorks

Programming Languages: JAVA, MATLAB, Python, JavaScript, HTML, CSS

Languages: English and Hindi

Awards/Honors: Eagle Scout; National Merit Scholarship Finalist; Cal Leadership Award; Governor's School of Virginia STEM program; Rochester Institute of Technology Computing Medal Scholarship

Interests: Skiing/Snowboarding, Backpacking/Camping, Tennis, Basketball, Teaching/Education, Writing: https://thedmvcitizen.com/ (Blog site) - Avenue to contribute my perspective on topics I find interesting and foster a meaningful exchange of ideas with people across the community, perhaps to find a broader purpose that unites us all.