Akshat Khandelwal

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Objective

Looking for Software Development/Computer Science projects to enhance knowledge and prepare for a future in autonomous driving.

Skills

- Python Programming ● RobotC Programming
- Java ● R Programming ● Netlogo Programming
- HTML/CSS (Beginner) ● Cybersecurity ● CAD
- Leadership ● Teamwork ● Problem Solving ● Teaching
- Building/Build Quality ● Budgeting ● Public Speaking
- Curriculum Development ● Workplace Safety
- Team/Project Management ● Public Relations
- Spanish (Intermediate) ● Hindi (Intermediate)

Awards & Accomplishments

- Attended the UC Davis COSMOS program (2022)
- National Merit Scholarship Commended Student
- Accepted into the selective Dublin High School Engineering and Design Academy
- Invited twice to VEX Robotics World Championships
- VEX Robotics state tournament semifinalists (2023) and finalists (2022)
- AP Scholar with Honors Award
- Industry Certification In Python via CertiPort
- Numerous judges awards in robotics
- Honors Academic Block D Scholar
- Dublin High School Entrepreneurship Project Finalist

Education

California Polytechnic State University San Luis Obispo, San Luis Obispo, CA (Sept 2024- Present)
Major-Related Courses:
    CSC 202: Data Structures ● MATH 145: Linear Analysis I

Dublin High School, Dublin, CA (Aug 2020 -June 2024)
- Cumulative GPA: 4.34
- Weighted 10-12 A-G GPA: 4.56
- CA Cal Grant GPA: 4.00

Higher Level and Weighted Courses
    Honors Chemistry ● Honors Principles Of Engineering ● AP Calculus AB ● AP Seminar ● AP English Language and Composition ● AP Computer Science Principles ● AP Statistics ● AP Macroeconomics ● AP Computer Science A ● AP Research ● AP US Government and Politics

UC Berkeley ATDP, Berkeley, CA (Jun 2023 - Jul 2023)
    AP Psychology ● Honors Data Science Lab with R

Chabot College, Hayward, CA (Sep 2023 - Dec 2023)
    College Physics A

Las Positas College, Livermore, CA (Jan 2024 - May 2024)
    Calculus 2

Work Experience

Retail Sales Associate, Fleet Feet Pleasanton, Pleasanton, CA (April 2024 - September 2024)
- Have 45-minute one-on-one outfitting sessions with customer to understand their needs and preferences
- Analyze and explain scans of customers feet and walking patterns taken through Volumental scanning technology
- Utilize scans to provide personalized shoe, insole, and sock recommendations to customers
- Ranked among top 3 associates in sales per hour throughout employment, with ~$140.00 sales/hr

Paid Digital Marketing Intern, Reliance Financial, Dublin, CA (June 2021 - August 2021)
- Introduced and implemented Jungo CRM to efficiently automate tasks such as lead processing, saving 2 hours weekly
- Developed 3 comprehensive guides outlining my procedures for colleagues
- Conducted extensive research on competitors and devised employable marketing strategies
- Assisted in the creation of marketing content

Private Mathematics and Coding Tutor, Dublin, CA (February 2022 - Present)
- Hold private, customized one-on-one sessions with students grades 3-11
- Teach math topics ranging from elementary mathematics to AP Calculus BC
- Teach coding languages from basic Scratch (block-based coding) to Python & Java
- Develop worksheets and tests to track student progress

Volunteering and Extracurriculars

UC Davis COSMOS Cluster 5: Computers in Biophysics and Robotics, UC Davis, CA (July 2022 - August 2022)
- Developed a t-shirt folding robot under Dr. Ali Dad-del and presented it to a symposium of 220 people
- Researched detecting DNA mutations using Python's ggplot library with Dr. Rajiv Singh and 2 PhD students
- Commended by professor for "superb mindful presence, excellent building, and fantastic cooperative skills"
- Networked with 100+ high achieving, like-minded peers

VEX Competition Team Captain, Gael Force Robotics (June 2022 – June 2023)
- Led a 15 member team to become top 16 in California, overseeing CAD design, construction, and coding of robot
- Managed team finances, devised game strategy, trained interns, and participated in interviews with judges
- Enhanced team cohesion and outreach through bonding events and workshops for younger children
- Developed connections within the robotics community, connecting with 50+ teams worldwide to share ideas

VEX Competition Team Member/Coder, Gael Force Robotics (December 2020 - June 2022, June 2023 - June 2024)
- Write code in RobotC and collaborated on Github repository
- Provide mentorship to budding coders and ensured seamless integration of code with hardware
- Document every meeting and competition following best engineering notebook practices
- Competed in state and international level competitions

Member, Dublin High School Engineering and Design Academy, Dublin High School, CA (2021-June 2024)
- Represented school in luncheon with PLTW and Amazon representatives
- Initiated and led outreach event at middle school with declining Engineering students, which is now a annual event
- Met one-on-one with mentor (Engineering industry professional) on mock interviews, resume building, and more career-prep activities
- Attended networking events with STEM industry professionals

Exhibit Interpreter, The Tech Interactive, San Jose, CA (October 2021 – November 2022, 45+ Hours)
- Taught young children about the wonders and applications of STEM, inspiring innovators and scientists
- Conducted tours and led interactive activities for children and groups, enhancing interpersonal and explanation skills
- Collaborated with engineers who built exhibits, gaining insights into STEM's practical applications
- Trained new volunteers and employees

Organizer, Robotics4Kids, Dublin, CA (First week of July, 2022 & 2023, 20 Hours)
- Mentored 17 students grades 4-7 for free in robotics and coding basics, such as gear ratios and loops
- Developed fun, interactive daily slides to teach important skills and create an enjoyable learning environment

Head Fundraiser, Best Buddies, Dublin, CA (July 2023 - January 2024)
- Leading fundraising initiative with a goal to raise over $3000 for IDD (intellectual and developmental disabilities)
- Held event which fundraised over $600 through engagement with over 100 potential donors
- Building a network of like-minded people and learning effective persuasion

Inspirit AI (June 2022 - July 2022)
- Worked with a team to develop model that detects distracted drivers using Python matplotlib and Tensorflow
- Delved deep into Convolutional Neural Networks, Jupyter notebooks, and image data extraction/analyzation
- Gained insights in AI ethics and learned how to pitch an idea to investor