

# Derek K. Xu

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<b>EDUCATION</b>	<b>University of California, Irvine, Irvine, CA</b> B.S. in Computer Science Honors: Campuswide Honors Collegium Relevant Coursework: Python Programming and Libraries (Accelerated), Boolean Logic and Discrete Structures, Humanities Core Writing: Honors	<i>Expected Graduation: June 2026</i>
<b>LEADERSHIP EXPERIENCE</b>	<b>Engineering Club, Dublin, CA</b> Secretary <ul style="list-style-type: none"><li>Created a flyer to drive the recruitment of 25 club members</li><li>Collaborated with the club advisor and other members to discuss issues in the school's engineering classes, planned mitigation, and developed solutions</li><li>Decided with the club advisor and rest of board to make a total of \$1,000 of purchases for the school Engineering Academy throughout the school year</li><li>Took attendance and submitted minutes for 10+ meetings throughout school year</li></ul> <b>Mappers for Humanity Club, Dublin, CA</b> President <ul style="list-style-type: none"><li>Mapped uncharted areas worldwide requiring humanitarian assistance</li><li>Added 2,783 buildings and 67 kilometers of road to OpenStreetMap</li><li>Recruited 10 club members, coached mapping skills, led the team, and achieved mapping goals</li></ul> <b>Valley Children's Museum, Dublin, CA</b> Teen Leadership Council Member <ul style="list-style-type: none"><li>Planned, organized, and executed 15+ activities, including crafts, experiments, and sensory play</li><li>Assisted 100+ kids with museum activities</li><li>Produced a science experiment video</li><li>Hosted an activity for the first virtual event during COVID-19</li></ul>	<i>September 2021 - May 2022</i> <i>February - May 2021</i> <i>October 2018 - August 2020</i>
<b>ACTIVITIES</b>	<b>UC Santa Barbara Summer Research Academies</b> Machine Intelligence Track <ul style="list-style-type: none"><li>Studied machine intelligence and developed machine learning algorithms</li><li>Built a neural network model predicting COVID-19 case trends</li><li>Presented and concluded the model supports COVID-19 vaccine efficacy in a research paper</li></ul>	<i>June - July 2021</i>
<b>SKILLS</b>	<b>Language</b> <ul style="list-style-type: none"><li>Mandarin Chinese: fluent in speaking and listening, competent in reading and writing</li></ul> <b>Technical</b> <ul style="list-style-type: none"><li>Programming languages: Java, Python, HTML, CSS, Bash, SQL, C++<ul style="list-style-type: none"><li>Java IT Specialist Certification Exam score: 900/1,000</li><li>Python IT Specialist Certification Exam score: 792/1,000</li></ul></li><li>Microsoft Windows (10, 11)</li><li>Development environments: Repl.it, Visual Studio Code, Arduino IDE, Eclipse, IDLE</li><li>Other Software: Google Workspace, Microsoft Word, Adobe Acrobat</li></ul> <b>Other</b> <ul style="list-style-type: none"><li>Advanced math skills<ul style="list-style-type: none"><li>Participated in math competitions including AMC 10/12, AIME, ARML, etc.</li><li>3-time AIME qualifier</li></ul></li></ul>	<i>May 2022</i> <i>May 2022</i>
<b>AWARDS</b>	<b>Catherine Kuo Community Service Scholarship</b> <ul style="list-style-type: none"><li>Awarded for commitment to providing community service</li></ul> <b>Dublin High School Parent Faculty Student Organization Scholarship</b> <ul style="list-style-type: none"><li>Awarded based on extracurricular involvement and school and community service</li></ul>	<i>May 2022</i> <i>May 2022</i>