

I'm a high school senior with a keen interest in computer science and technology, and how they can influence our society's future.

EDUCATION

<b>Davis Senior High School, Davis, CA</b> — GPA (unweighted): 3.96	<b>2021 — Present</b>
<ul style="list-style-type: none"><li>• <b>Relevant Courses:</b> AP Calculus AB, AP Calculus BC, AP Chemistry, AP Physics, AP Biology, Advanced Robotics Honors, AP U.S. History, AP English Literature and Composition, AP U.S. Government, AP Macroeconomics</li><li>• <b>Self-Studied AP Courses:</b> AP Computer Science A, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism (to be taken), AP Statistics, AP English Language and Composition</li><li>• <b>Dual Enrollment Courses:</b> Calculus III</li></ul>	
<b>Michigan Math and Science Scholars</b> — Mathematics of Decisions, Elections, and Games	<b>Summer 2023</b>
<b>Summer STEM Institute</b> — Conducting Data Science Research, Programming for Data Science	<b>Summer 2021</b>
<b>AwesomeMath Summer Program</b> — Number Theory	<b>Summer 2020</b>

TECHNICAL EXPERIENCE

<b>FIRST Robotics Competition Team 1678: Citrus Circuits</b>	<b>August 2021 — Present</b>
<i>Software Scouting Front-End Developer</i>	
<ul style="list-style-type: none"><li>• Led design and implementation of Android and desktop apps using the Kotlin programming language for a world-leading FRC robot scouting system.</li><li>• Wrote whitepaper on the scouting system's architecture and design, and publicly released the source code for other teams to use.</li><li>• Contributed significantly to the team winning its division at the <i>FIRST</i> World Championship in both 2022 and 2023.</li><li>• Led the Shelter Finder outreach project, developing a web app to help police officers in the local community locate available homeless shelters for those in need. Collaborated with community members.</li></ul>	
<b>UC Davis Molecular Computing</b>	<b>June 2022 — Present</b>
<i>Software Engineering Intern under Professor Dave Doty</i>	
<ul style="list-style-type: none"><li>• Conducted software-based research on DNA nanotechnology by developing the web app scadnano, a tool written in the Dart programming language using React Redux helping researchers design synthetic DNA nanostructures.</li></ul>	

VOLUNTEERING/LEADERSHIP

<b>Davis Coding Club</b>	<b>August 2021 — Present</b>
<i>Vice President — Project Organizer</i>	
<ul style="list-style-type: none"><li>• Taught at Python and Java workshops for elementary school students.</li><li>• Wrote problems for and organized the Davis Coding Tournament in 2022 and 2023 for elementary and middle school students.</li></ul>	
<b>Davis Youth Robotics RoboCamps</b>	<b>Summer 2022, 2023</b>
<i>Head Counselor</i>	
<ul style="list-style-type: none"><li>• Led team of counselors at summer camp hosted by Citrus Circuits.</li><li>• Taught students through 8th grade teamwork through building and programming VEX IQ robots.</li></ul>	
<b>DSHS Mu Alpha Theta Math Club</b>	<b>August 2021 — Present</b>
<i>Vice President — Website Lead</i>	
<ul style="list-style-type: none"><li>• Wrote problems for and organized the Davis Math Tournament in 2022 and 2023.</li></ul>	

COMPUTING SKILLS

<b>Languages</b>	Python, Java (USACO Silver), Kotlin, C++, Rust, XML, HTML, CSS, JavaScript, TypeScript, Dart, LaTeX, Markdown, Typst
<b>Frameworks/OS</b>	Linux, Windows, Android, Jetpack Compose, Compose Multiplatform, Google Apps Script, Manim
<b>Other Programs/Software</b>	Git, GitHub, Zsh, JetBrains IDEs, Visual Studio Code, Tailscale

EXTRACURRICULARS

<b>Boy Scouts Troop 139 Davis</b> — Star Rank, Patrol Leader, attended summer camps, participated in community service events
<b>Flute</b> — Music Teachers' Association of California Certificate of Merit Level 9, member of Davis Youth Flute Choir (2018—)
<b>Sports</b> — Tennis (DSHS Junior Varsity Team), Cross Country (DSHS Frosh/Soph Team), Swim (recreational)