

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> <i>Software Scouting Front-End Developer</i>	<b>August 2021 — Present</b>
<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>• Trained newer members on maintaining and developing the 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>• Was a key participant in the team's competitive strategy discussions and alliance selections.</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.</li><li>• Oversaw Shelter Finder development and collaborated with community members.</li></ul>	

<b>UC Davis Molecular Computing</b> <i>Software Engineering Intern under Professor Dave Doty</i>	<b>June 2022 — Present</b>
<ul style="list-style-type: none"><li>• Conducted software-based research on DNA nanotechnology by developing the web app scadnano, a tool for designing synthetic DNA nanostructures.</li><li>• Used the Dart programming language with React Redux.</li></ul>	

Personal Projects

- **Salvage:** An Android app written in Kotlin for bookmarking and organizing links.
- **Previewception:** A Kotlin library for previewing Jetpack Compose UI components with different arguments.
- **Android App Template:** A template for Android apps with a scalable architecture, self-populating the app metadata when used.
- **Peruse:** An Android app for browsing Hacker News.
- **School Schedule:** An Android app for viewing a school's bell schedule.

VOLUNTEERING/LEADERSHIP

<b>Davis Coding Club</b> <i>Vice President — Project Organizer</i>	<b>August 2021 — Present</b>
<ul style="list-style-type: none"><li>• Taught at Python and Java workshops for elementary school students.</li></ul>	

- Wrote problems for and organized the Davis Coding Tournament in 2022 and 2023 for elementary and middle school students.

## **Davis Youth Robotics RoboCamps**

**Summer 2022, 2023**

*Head Counselor*

- Led team of counselors at summer camp hosted by Citrus Circuits.
- Taught students through 8th grade teamwork through building and programming VEX IQ robots.

## **DSHS Mu Alpha Theta Math Club**

**August 2021 — Present**

*Vice President — Website Lead*

- Wrote problems for and organized the Davis Math Tournament in 2022 and 2023.

## **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**

---

### **Boy Scouts Troop 139 Davis**

- Patrol Leader
- Star Rank
- Community service participation: Scouting for Food, Christmas tree lot, city event cleanups, regional park maintenance
- Summer camps

### **Flute**

- Music Teachers' Association of California Certificate of Merit Level 9
- Davis Youth Flute Choir (2018—): annual summer/winter camps
- Concerts: retirement community performances, holiday performances in parks

### **Sports**

- Tennis — Davis Senior High School Junior Varsity Team (Spring 2021, 2022, 2024)
- Cross Country — Davis Senior High School Frosh/Soph Team (Fall 2021)
- Swim — recreational

### **Family Responsibilities**

- Dog walking
- Laundry, garbage, house cleaning
- Yard work

### **Hobbies**

- Biking
- Running
- Photography
- Singing
- Reading