

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

Davis Senior High School, Davis, CA — GPA (unweighted): 3.96	2021 — 2024
<ul style="list-style-type: none">• Relevant Courses: 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• Self-Studied AP Courses: AP Computer Science A, AP Physics C: Mechanics, AP Statistics, AP English Language and Composition• Dual Enrollment Courses: Calculus III	
Michigan Math and Science Scholars — Mathematics of Decisions, Elections, and Games	Summer 2023
Summer STEM Institute — Conducting Data Science Research, Programming for Data Science	Summer 2021
AwesomeMath Summer Program — Number Theory	Summer 2020

TECHNICAL EXPERIENCE

FIRST Robotics Competition Team 1678: Citrus Circuits	August 2021 — June 2024
<i>Software Scouting Front-End Developer</i> <ul style="list-style-type: none">• Led design and implementation of Android and desktop apps using the Kotlin programming language for a world-leading FRC robot scouting system.• Trained newer members on maintaining and developing the scouting system.• Wrote whitepaper on the scouting system's architecture and design, and publicly released the source code for other teams to use.• Was a key participant in the team's competitive strategy discussions and alliance selections.• Contributed significantly to the team winning its division at the <i>FIRST</i> World Championship in both 2022 and 2023.• 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.• Oversaw Shelter Finder development and collaborated with community members.	
UC Davis Molecular Computing	June 2022 — Present
<i>Software Engineering Intern under Professor Dave Doty</i> <ul style="list-style-type: none">• Conducted software-based research on DNA nanotechnology by developing the web app scadnano, a tool for designing synthetic DNA nanostructures.• Used the Dart programming language with React Redux.	

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

Davis Coding Club	August 2021 — June 2024
<i>Vice President — Project Organizer</i> <ul style="list-style-type: none">• Taught at Python and Java workshops for elementary school students.	

- 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 — June 2024
- Vice President — Website Lead
- Wrote problems for and organized the Davis Math Tournament in 2022, 2023, and 2024.

COMPUTING SKILLS

Languages	Python, Java (USACO Silver), Kotlin, C++, Rust, XML, HTML, CSS, JavaScript, TypeScript, Dart, LaTeX, Markdown, Typst
Frameworks/OS	Linux, Windows, Android, Jetpack Compose, Compose Multiplatform, Google Apps Script, Manim
Other Programs/Software	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—2024): annual summer/winter camps
 - Concerts: retirement community performances, holiday performances in parks
- Sports

 - Tennis — Davis Senior High School Junior Varsity Team (Spring 2021, 2022)
 - 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