

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 — Present

- 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 Physics C: Electricity and Magnetism (to be taken), 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 — Present

Software Scouting Front-End Developer

- 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 FIRST 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

Software Engineering Intern under Professor Dave Doty

- 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 — Present

Vice President — Project Organizer

- 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
Head Counselor
- Summer 2022, 2023
- 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
Vice President — Website Lead
- August 2021 — Present
- Wrote problems for and organized the Davis Math Tournament in 2022 and 2023.

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—): 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