

EDUCATION

University of California, Santa Barbara — Class of 2028, College of Creative Studies Computing	
Davis Senior High School, Davis, CA — GPA (unweighted): 3.96	2021 — 2024
<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 Statistics, AP English Language and Composition</li><li>• <b>Dual Enrollment Courses:</b> Calculus III</li></ul>	
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
Software Scouting Front-End Developer	
<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 FIRST 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>	
UC Davis Molecular Computing	June 2022 — Present
Software Engineering Intern under Professor Dave Doty	
<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

Davis Coding Club	August 2021 — June 2024
Vice President — Project Organizer	
<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>	

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

- 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