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Edwin Chang

GitHub/EdwinChang24

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: Calculus III, AP Chemistry, AP Physics, AP Biology, Advanced Robotics Honors, AP U.S. History, AP English Literature and Composition, AP U.S. Government, AP Macroeconomics

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

- Worked extensively on Android and desktop app development using the Kotlin programming language for the world-leading FRC robot scouting system; 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 police officers in the local community locate available homeless shelters for those in need. Oversaw development and collaborated with community members.

UC Davis Molecular Computing   **June 2022 — Present**
Software Engineering Intern

- Conducted software-based research on DNA nanotechnology by developing the web app scadnano, a tool for designing synthetic DNA nanostructures.

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 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, teaching students through 8th grade teamwork through building and programming robots.

DSHS Mu Alpha Theta Math Club   **August 2021 — Present**
Vice President — Website Lead

- Wrote problems for and proctored 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
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
Flute — Music Teachers' Association of California Certificate of Merit Level 9
Sports — Tennis (JV), Cross Country, Swim