Davis, CA
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Edwin Chang

edwinchang.dev
GitHub/**EdwinChang24**

Education

University of California, Santa Barbara — Class of 2028, College of Creative Studies Computing   2024 — Present
- Relevant Courses: Computer Programming and Organization I, Computer Science Lab, Quantum Computing Fundamentals, Linear Algebra with Applications

Davis Senior High School, Davis, CA — GPA (unweighted): 3.96   2021 — 2024
- 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: Computer Science A, Physics C: Mechanics, Statistics, 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

Computing Skills

Languages	Kotlin, Python, Java (USACO Silver), C++, XML, YAML, TOML, HTML, CSS, JavaScript, TypeScript, Vue, Svelte, Astro, Dart, LaTeX, Markdown, Typst
Frameworks/OS	Linux (KDE Neon), Windows, Android, Jetpack Compose, Compose Multiplatform, Google Workspace/Apps Script
Tooling	Git, GitHub (Issues, PRs, Actions, Pages, Wikis, CLI), Renovate, Cloudflare (Pages, Workers, Domains, Wrangler), Vercel, Zsh, Alacritty, Android Studio, IntelliJ IDEA, Visual Studio Code, Kate
Other Software	Firefox, Thunderbird, Tailscale, GIMP, Inkscape, Discord, Slack, Obsidian, Kdenlive

Technical Experience

FIRST Robotics Competition Team 1678: Citrus Circuits   August 2021 — June 2024
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.
- Wrote whitepaper on the scouting system's architecture and design, and publicly released the source code for other teams to use.
- Contributed significantly to the team winning its division at the *FIRST* World Championship in 2022, 2023, and 2024.
- 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. Collaborated with community members.

UC Davis Molecular Computing   June 2022 — Present
Software Engineering Intern under Professor David Doty
- Conducted software-based research on DNA nanotechnology by developing the web app scadnano, a tool written in the Dart programming language using React Redux helping researchers design synthetic DNA nanostructures.

Volunteering/Leadership

Davis Coding Club — Vice President, Project Organizer   August 2021 — June 2024
- Taught at Python and Java workshops and ran the Davis Coding Tournament for elementary/middle school students.

Davis Youth Robotics RoboCamps — Head Counselor   Summer 2022, 2023
- Led team of counselors at VEX IQ summer camp teaching students through 8th grade.

DSHS Mu Alpha Theta Math Club — Vice President, Website Lead   August 2021 — June 2024
- Wrote problems for and organized the Davis Math Tournament in 2022-2024.

Hobbies

Flute (MTAC Certificate of Merit® Advanced), Pickleball, Biking, Running, Singing, Photography