Davis, CA edwinchang2024@gmail.com (510) 579-4552

Edwin Chang

edwinchang.dev GitHub/EdwinChang24

Technical Experience

升级 Display

March — September 2024

Solo Developer

- Created an elegantly functional app showing everyone at a table key information about an ongoing round of 升级 (sheng ji), a family of classic Chinese card games that bring people together.
- 升级 Display works on Android, Windows, Linux, and the web using Compose Multiplatform, and is incredibly responsive to screen size, so players can use the app on any phone or tablet and get a great experience.
- Developed a website using Astro with Svelte, featuring complex scroll-based animations, to showcase the app's features.

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, contributing significantly to the team winning its world championship division in 2022-2024.
- Wrote whitepaper on the scouting system's architecture and design, and publicly released the source code.
- Headed a team of counselors at Davis Youth Robotics RoboCamps, a summer camp serving students through 8th grade.
- Led the Shelter Finder outreach project, collaborating with community members and developing a web app to help police officers in the local community locate available homeless shelters for those in need.

scadnano June 2022 — Present

Software Engineering Intern under Prof. David Doty, UC Davis Molecular Computing

• Conducted software-based research on DNA nanotechnology by developing a web app, written in the Dart programming language using React and Redux, helping researchers design synthetic DNA nanostructures.

Android App Template

September — November 2023

Solo Developer

- Created a GitHub template for creating Android apps with a useful base of libraries and plugins.
- When using the template, developers can put their app's name in the GitHub repo description, and a GitHub Action inserts the app name into the correct places and cleans up the project.

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
- Clubs: Davis Coding Club (VP, Project Organizer), DHS Mu Alpha Theta Math Club (VP, Website Lead)

Summer Programs — Michigan Math and Science Scholars, Summer STEM Institute, AwesomeMath Summer Program

Computing Skills

Languages Kotlin, Python, Java (USACO Silver), C++, XML, YAML, TOML, HTML, CSS, JavaScript, TypeScript, React, Vue, Svelte,

Astro, Dart, LaTeX, Markdown, Typst

Operating Systems Linux (KDE Neon, Kubuntu), Windows 10/11, Android

Tooling Git, GitHub (Issues, PRs, Actions, Pages, Wikis, CLI), Renovate, Cloudflare (Pages, Workers, Domains, Wrangler), npm,

Yarn, pnpm, Tailwind CSS, Redux, Vite, Vercel, Zsh, Alacritty, Jetpack Compose, Compose Multiplatform, Google

Workspace, Google Apps Script, Android Studio, adb, IntelliJ IDEA, Visual Studio Code, Kate, asdf, zoxide

Other Software Firefox, Thunderbird, Tailscale, GIMP, Inkscape, Discord (Vencord, Powercord, Aliucord, Vendetta), Slack, Obsidian,

Kdenlive, F-Droid

Hobbies