Andrew Collins

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Education

Santa Clara University, B.S. in Computer Science and Engineering   *Exp. Graduating Dec 2025*
Activities: Association for Computing Machinery (ACM), Video Game Design Club, KSCU Radio, HCI Lab

Relevant Experience

Human-Computer Interaction Lab Research, Academic Researcher   *January 2023 - Present*
- Researching influence of tone and rhetoric using Valence-Arousal Model to improve UX of screen time messages on iOS
- Collaborating with team of 5 through Agile and built with Swift

NexStream Technical Education, Project Lead   *August 2021 - December 2021*
- Coordinated team of students to create online virtual classroom web app using WebGL, Unity, and dedicated servers
- Managed project vision, delegated tasks through a Scrum model, and handled documentation to keep team productive

Leadership Experience

SCU ACM (Computer Science Club), President   *October 2022 - Present*
- Responsible for managing 3 student-run hackathons (Hack for Humanity, INRIX Hack, and Roblox Hack) with 300+ participants each
- Instructed technical workshops on Python/Flask and OpenAI to 200+ students

Video Game Design Club, Vice President   *September 2022 - Present*
- In charge of overseeing all technologies including GitHub (git project manager) and Unity (C#)
- Awarded Santa Clara University's Provisional Student Organization of the Year for fostering an interdisciplinary community of 125+ members

League of Amazing Programmers, Camp Counselor   *July 2021 - August 2021*
- Instructed 60+ students grades 5 - 12 introducing Python, Unity game design, and robotics to underrepresented communities, promoting accessible computer science education

Development Portfolio

Toki Alarm - (Flutter, SQLite)
Published full-stack puzzle alarm clock app for iOS with 1000+ users integrated with Apple's Game Center

Park, Bus, and Jam - 3rd Place INRIX Hack 2023 - (Flutter, Flask REST API, NoSQL HiveDB, APIs, Python)
Wrote full-stack transportation app invented to find most optimal parking and public transportation for concerts

Your Pitch - 3rd Place ACM Winter Challenge - (Flutter, NoSQL HiveDB, Spotify Web API)
Developed daily-curated music mobile app with custom Spotify Web API Wrapper and OAuth 2.0 PKCE Flow

Fist Bump - 3rd Place Hack for Humanity 2024 - (Vue.js, Dart Shelf API, NoSQL HiveDB)
Developed full-stack website and API to connect students with on-campus events with custom calendar view

Nest Notifications - 4th Place INRIX Hack 2022 - (Flutter, Flask REST API, SQLite, APIs)
Created full-stack location-sharing mobile app designed for the parental safety and privacy of adolescents

Skills

Languages: Python, Dart, C/C++, C#, Java, Javascript, SQL, HTML, CSS, Bash
Frameworks/Tech: Flutter, Vue, Unity, Flask, Firebase, NoSQL, NumPy, Pandas, REST APIs, IOT, 3D CAD
DevOPs: Git, GitHub, Linux/Unix, AWS, Selenium, Chrome DevTools, VSCode, PyCharm, IntelliJ, Eclipse
Interests: Full-Stack, Entrepreneurship, Game Design, UI, UX, Hiking, Music Composition and Production