

# Andrew Collins

[andrewmcollins3@gmail.com](mailto:andrewmcollins3@gmail.com) | [andrewcollins.dev](https://andrewcollins.dev) | [linkedin.com/in/andrew-michael-collins](https://linkedin.com/in/andrew-michael-collins) | [github.com/aceeudev](https://github.com/aceeudev)

## Education

**Santa Clara University**, B.S. in Computer Science and Engineering **December 2025**

**Activities:** Association for Computing Machinery (ACM), CS TA, Video Game Design Club, KSCU Radio, HCI Lab

**Ambassador:** Notion, Edge Impulse, Simplify

**Courses:** Machine Learning & Data Mining, Advanced Data Structures, Algorithms, Web Information Management, Probability and Statistics, Computer Networks, Compilers, Operating Systems, Introduction to Information Security

## Skills

**Languages:** Python, C++, C, C#, Dart, Java, Typescript, Javascript, SQL, HTML, CSS, Verilog, Bash

**Frameworks/Tech:** Flask, NumPy, Pandas, Flutter, Vue, Unity, React, Firebase, NoSQL, Scikit-learn, Figma

**DevOps:** Git, GitHub, Linux/Unix, AWS, AWS SAM, Docker, CI/CD, Jupyter, Selenium, Chrome DevTools, Vim, VSCode

**Interests:** Full-Stack, Machine Learning/ML, Backend, Data Science, Product Engineering, Entrepreneurship, Artificial Intelligence/AI, REST APIs, IOT, UI, UX, Embedded Devices, CAD, Hiking, Game Design, Music Composition/Production

## Professional Experience

**Qualcomm**, Developer Intern

**June 2025 - September 2025**

- Engineered [full-stack edge AI app](#) (React.js, Python, websockets) with on-device model inference and real-time camera integration for low-latency and privacy-first video analytics
- Built on-device [PPE object detection ML model](#) by integrating Rubik Pi 3 IoT dev kit and Edge Impulse, achieving 98.8% accuracy and <2 ms inference speed
- Created [Pong demo](#) (pygame, Ollama, Qwen) with on-device LLM, enhancing adaptive gameplay
- Collaborated with cross-functional teams (product, QA, BU) to resolve 20+ developer experience issues, improving product launch usability and developer integration

**SCU Human-Computer Interaction Lab**, Software Engineer

**January 2023 - Present**

- Implemented data analysis tools (Python, Pandas, Jupyter) to investigate redesigning screen time management tools for digital wellbeing and classification of YouTube search queries based on context
- Created Chrome Extension and AWS SAM API backend with LLMs to automate productivity focus mode
- Developed iOS app in Swift utilizing iOS screen time APIs for research study on digital health
- Led a team of PhDs, undergraduates, and developers accelerating project delivery

## Projects

**Brickdle.com** - Python, Google Analytics, Flutter, HTML

Parsed 17,000+ LEGO sets to create [Wordle-like game](#) where users guess number of LEGO's in images.

Acquired 2.5K+ plays and 900+ visits across 37 countries in first month

**CandlesNet** - Python, Pytorch, NumPy, Data Engineering

Engineered data pipelines for a transformer-based financial time-series model, processing 350K+ records

**Park, Bus, and Jam** - Flutter, Flask REST API, NoSQL HiveDB, APIs, Python - *3rd Place INRIX Hack 2023*

Wrote full-stack [transportation app](#) invented to find most optimal parking and public transportation for concerts

**Your Pitch** - Flutter, NoSQL HiveDB, Spotify Web API - *3rd Place ACM Winter Challenge*

Developed daily-curated music recommendation [mobile app](#) with own Spotify API Library and OAuth 2.0 PKCE

**Fist Bump** - Vue.js, Dart Shelf API, NoSQL HiveDB - *3rd Place Hack for Humanity 2024*

Implemented full-stack [website and API](#) to connect students with on-campus events with custom calendar view

## Leadership Experience

**SCU ACM (Computer Science Club)**, President

**October 2022 - June 2024**

- Managed and ran 8 student-run hackathons ([Hack for Humanity](#), [AWS x INRIX Hack](#), [Roblox Hack](#), [INRIX Hack](#)) with 300+ participants to provide students valuable industry skills and opportunities to innovate
- Instructed technical workshops on Python/Flask, Fullstack development, personal projects, and OpenAI to 200+ students to teach importance of going beyond academia through impactful applications

**Video Game Design Club**, Vice President

**September 2022 - Present**

- Oversaw all technologies including GitHub (git project manager), Unity (C#), and web design in a collaborative space to encourage leadership and innovation
- Awarded Santa Clara University's Provisional Student Organization of the Year for fostering a creative space for expression for an interdisciplinary community of 125+ members