

Joshua Chung

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About

I love learning how systems and devices work, with a particular interest in tinkering with and integrating hardware and software for solving problems and learning.

Projects

(Full Project Portfolio: keshuac.com/projects)

EdGo | Typescript, React Native + Expo, Effect-ts

(April - June 2026)

- Self-developed an React-Native Android 3rd party client app for the EdDiscussion platform.
- Github Repository: <https://github.com/jchu634/EdGo>

X6-Utilities | Vite, React, Typescript, Rust

(March 2026)

- Reverse engineered a Motospeed X6 mouse and created a WebHID driver and an battery utility.
- WebHID Driver: <https://x6-utility.keshuac.com/>
- Repository: <https://github.com/jchu634/X6-Utilities>

HA-Components | NextJS, Vite, React, TypeScript

(August 2025 - Present)

- A React component library/framework for building custom Home Assistant Dashboards.
- Created components, wrote docs, and distributed them via the Shadcn/ui cli as an registry.
- Website + Docs: <https://hacomponents.keshuac.com>
- Open Source Repo: <https://github.com/jchu634/ha-components>

Subtext | Python, FastAPI, Typescript, NextJS, AstroJS

(Dec 2024 - Present)

- Developed full-stack desktop application to generate subtitles using Whisper locally.
- Implemented continuous delivery using a self-hosted Github runner to build application.
- Website: <https://subtextapp.cc/>
- Open Source Repo: <https://github.com/jchu634/Subtext-app>

Ryzen AI Subtitling | Python, FastAPI, Typescript, NextJS

(April - August 2024)

- Developed an real-time audio subtitling program which runs on a AMD Ryzen NPU
- Finalist for the AMD Pervasive AI Developer Contest.
- Writeup: <https://www.hackster.io/jchu634/ryzen-ai-subtitling-5ead7f>
- Open Source Repo: <https://github.com/jchu634/RyzenAISubtitles>

Codecritters | Python, FastAPI, Dart, Flutter, Tensorflow, PyTorch

(Jul - Nov 2023)

- Collaborated in a team to make a full-stack web, desktop and mobile machine learning application to identify insects for Landcare Research
- Repository: <https://go.keshuac.com/codecritters>

Education

Monash University: Masters in Cybersecurity

(2026-Est. Oct 2027)

University of Auckland: B.Sci. Computer Science Major

(Graduated Sep 2024)