

# Joshua Chung

Fullstack Software Developer  
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 [Portfolio: keshuac.com](https://keshuac.com)

## Career Objective

My primary interest is in software development, with experience writing full stack web applications, backend systems, mobile applications and integrating and writing software for dedicated hardware.

I love learning about how systems work with reverse engineering and tinkering with them.

I particularly enjoy learning about interesting hardware and how they integrate with software.

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## Projects

(Full Project Portfolio: [keshuac.com/projects](https://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** | Rust, Typescript, Vite

(March 2026)

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

**HA-Components** | TypeScript, NextJS, Tanstack Start

(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>
- Github Repository: <https://github.com/jchu634/ha-components>

**OPFS Browser** | TypeScript, Vite, Firefox Addons

(July 2025 - Present)

- Created a Firefox addon for debug web applications using Origin Private File System (OPFS) APIs
- Addon: <https://addons.mozilla.org/en-US/firefox/addon/opfs-browser/>
- Github Repository: <https://github.com/jchu634/opfs-browser>

**Subtext** | Python, Typescript, FastAPI, NextJS, AstroJS

(Dec 2024 - Present)

- Developed a 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/>
- Github Repository: <https://github.com/jchu634/Subtext-app>

**Ryzen AI Subtitling** | Python, Typescript, FastAPI, NextJS

(April - August 2024)

- Prototyped, tested and polished an real-time audio subtitling program for a AMD Ryzen NPU
- Finalist for the AMD Pervasive AI Developer Contest.
- Writeup: <https://www.hackster.io/jchu634/ryzen-ai-subtitling-5ead7f>
- Github Repository: <https://github.com/jchu634/RyzenAISubtitles>

## Loopy-Desktop | JS, Electron

(Nov 2022- Jul 2023)

- Repackaged an open-source web app using ElectronJS into a standalone desktop application.
- Implemented GIF screen capture using JS.
  - Github Repository: <https://github.com/jchu634/loopy-desktop>

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

(Jul - Nov 2023)

- Capstone project at University of Auckland.
- Collaborated in a team to make a full-stack web and desktop ML application to identify insects for Landcare Research
- Developed a machine learning RESTful API in FastAPI
- Created automated desktop application packaging scripts for Windows and Ubuntu
- Created an Flutter android app to identify insects portably on phones.
  - Github Repository: <https://go.keshuac.com/codecritters>
  - Github Repository (Android App): <https://go.keshuac.com/codecrittersflutter>

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## Education

**Monash University:** Masters in Cybersecurity

(2026-Est. Oct 2027)

**University of Auckland:** B.Sci. Computer Science Major

(Graduated Sep 2024)

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## Technical Skills

Languages: Python, Typescript, Rust

Frameworks: React + React Native, FastAPI

Tooling: Zed, Proxmox, Github Actions

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## Skills Summary

- Full-Stack Development: Experience building web, desktop, and mobile applications
- Backend Development: Designed and implemented RESTful APIs with FastAPI
- Frontend Development: Built responsive user interfaces with Typescript and various React frameworks (Vite+React, Next.JS)
- Mobile Development: Built Android Applications apps using React-Native and Flutter
- Desktop Development: Created cross-platform desktop applications for Windows and Linux using Electron and PyWebview.
- DevOps: Implemented continuous delivery pipelines using self-hosted GitHub runners.
- Software Engineering: Skilled in rapid prototyping, debugging, testing, release management, and delivering production-ready software under tight deadlines.

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## Interests

I am interested in computing of all types, from client devices to enterprise hardware.

For this, I have been tinkering with with enterprise servers and networking in my homelab in my spare time.

For client/edge computing, I am currently interested in reverse engineering for custom integrations for a EOS Cisco Room Kit as well as a project reimplementing NXBT Nintendo Switch Pro Controller Bluetooth Emulation functionality to be cross-platform using Google's Bumble BLE library.