

# Joshua Chung

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

## Projects

(Full Project Portfolio: [keshuac.com/projects](https://keshuac.com/projects))

### OPFS Browser | TypeScript, Firefox Addons

(July 2025)

- A Firefox addon created to easily debug the Origin Private File System (OPFS) in Firefox.
  - Addon: <https://addons.mozilla.org/en-US/firefox/addon/opfs-browser/>
  - Repository: <https://github.com/jchu634/opfs-browser>

### 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.
- Created and maintained unique virtualised build architecture to solve build problems.
  - 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.
- Effectively prototyped, tested and polished application under a hard deadline.
  - 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)

- Capstone project at University of Auckland.
- Collaborated to make full-stack web and desktop application in a team 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.
  - Repository: <https://go.keshuac.com/codecritters>
  - Repository (Android App): <https://go.keshuac.com/codecrittersflutter>

## Education

### University of Auckland

B.Sci. Computer Science Major | <https://keshuac.com/extlink/ucert>

(Graduated Sep 2024)

### Nvidia Deep Learning Institute (DLI)

Fundamentals of Deep Learning Certificate | <https://keshuac.com/extlink/ncert1>

(Feb 2023)

Fundamentals of Accelerated Data Science | <https://keshuac.com/extlink/ncert2>

(Mar 2025)

Fundamentals of Accelerated Computing with CUDA Python | <https://keshuac.com/extlink/ncert3>

(Sep 2024)