

# Jason Yu

Software Engineer • Tech Speaker

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- dev.to
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## 👤 Work Experience

### 🎈 Fishball Ltd (Founder)

2025 - Present

Building multiple apps, SaaS, and open-source projects:

#### 📱 Mobile Apps

- 🇬🇧 [Ace It: Life in the UK Test](#)
  - 🖥️ React Native, TypeScript
  - A study app for the UK Citizenship Test.
- ♠️ [Big2Cal](#)
  - 🖥️ React Native, TypeScript
  - Score-tracking app for the popular Hong Kong card game **Big2**.
- 📱 [WearDa Metronome](#)
  - 🖥️ Jetpack Compose, Kotlin
  - A WearOS vibrating metronome (~1.2k MAU, >5k downloads).

#### 🌐 Web Apps

- 🇨🇳 [mjcal.app](#)
  - 🖥️ React, TypeScript
  - Mahjong score-tracking app with analytics and stats.

#### 😄 Open Source Projects

- [@fishballpkg/linkz](#)
  - Config-driven static site generator powering my website.
  - Generates a **linktree-like** page with markdown support.
- [@fishballpkg/acme](#)
  - Minimalistic, zero-dependency, pure TypeScript **ACME client**.
  - Uses the [ACME standard](#) for generating **TLS certificates**.

### Bloomberg LP (Senior TypeScript Engineer)

2023 - 2025

- Led migration to TypeScript strict mode
  - Increased visibility of strict mode errors:
    - Developed `@ts-expect-strict-error`, a [TypeScript Language Service Plugin](#), showing strict mode errors in IDEs (without affecting `tsc`).
    - Allowed suppressing errors with `@ts-expect-strict-error-next-line`.
  - Prevented new strict mode errors:
    - Built a CLI tool leveraging `@ts-expect-strict-error`.
    - Enforced checks via a new CI step, blocking PRs with unmarked strict errors.
  - Reduced existing strict mode errors:
    - Introduced Grafana dashboards to track progress and a leaderboard to gamify error elimination.
    - Eliminated **15% of 10k errors** in the first month.
- Defined best practices and patterns for scalable TypeScript code.

### Attest Technology Limited (Frontend Engineer)

2019 - 2023

- Developed an *A algorithm-based SVG line drawing module*\*
- Improved error detection and component testing DX.
- Advocated for the [“rule of least power”](#) as a coding principle.
- Led migration from **vanilla TypeScript** to **Vue.js**.

### The Hut Group (Full Stack Engineer)

2017 - 2019

- Built a **vanilla JavaScript component framework**.
- Founded & led “**JS Club**” to promote modern JavaScript practices.
- Developed a CLI tool to improve developer workflows.

## 🎤 Public Speaking

- Live Coding: Recreating Vue’s Reactivity System\**
  - 📅 Oct 2023
  - 📍 [Vue.js Slovenia Meetup](#)
  - 🎥 [Recording](#)
- Vue 3 Reactivity Reimagined**
  - 📅 Nov 2019
  - 📍 [Vue.js London Meetup](#)
  - 🎥 [Recording](#)
- Live coding: The new Composition API**
  - 📅 Oct 2019
  - 📍 [Vue.js London Conference](#)
  - 🎥 [Recording](#)
- Vue without View - An Introduction to Renderless Components**
  - 📅 Jun 2019
  - 📍 [Vue.js London Meetup](#)
  - 🎥 [Recording](#)
- Building a Simple Virtual DOM from Scratch**
  - 📅 Nov 2018
  - 📍 [Manchester Web Meetup](#)
  - 🎥 [Recording](#)

## 🔧 Open Source & Side Projects

- [diary.ycmjason.com](#)
  - AI-powered diary using **LLM**, inspired by Tom Riddle’s diary.
  - [Find out more on GitHub](#)
- [Keyboard-Keyboard](#)
  - Web-based **musical keyboard** using **Web Audio API**.
  - [Find out more on GitHub](#)
- [Perfect Colour](#)
  - Vision quiz testing ability to recognize RGB values.
  - [Find out more on GitHub](#)

## 🖋️ Articles

📖 All articles availabel at [dev.to/ycmjason](https://dev.to/ycmjason)

Here are some hand-picked highlights:

- Typing Partially Applicable Functions in TypeScript**
  - 📅 Jun 2023
  - 🔗 [Read](#)
- Detecting Barcodes from the Browser**
  - 📅 Nov 2021
  - 🔗 [Read](#)
- Writing Cleaner Code with the Rule of Least Power**
  - 📅 Apr 2020
  - 🔗 [Read](#)
- Building a Simple Virtual DOM from Scratch**
  - 📅 Dec 2018
  - 🔗 [Read](#)

## 🎓 Education

Imperial College London

2014 - 2017 • BEng Computing

- Courses: Haskell, Java, C, C++, Prolog, Python, AI, Operating Systems, Compilers, Networking.