

# Ryotaro Kimura

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📄 Ryotaro Kimura

Engineer specialising in Human Computer Interaction, Intelligent Machines and Web Development

## Experience

### Open Source Developer

WRTN Technologies

📅 Mar 2025 — June 2025

📍 Remote

- Developing **Agent OS**: OSS for creating AI agents using TypeScript
- Managing community and supporting users
- Enhancing the developer experience of the project
- Writing whitepapers and documentation
- R&D for tool-calling and agent creation

### Freelance Engineer

Self-Employed

📅 May 2023 — Present

📍 Remote

- Teaching and consulting machine learning, web development, and basic Python programming
  - Guided over **40 students**
- Built scalable product management systems using TypeScript, React, Storybook, TailwindCSS, and AWS
- Built B2B SaaS products using React, Next.js and Vercel
- Engineered interactive data-visualisation tools using D3.js, SvelteKit, PostgreSQL

### Cloudflare Engineer

NOT A HOTEL Inc.

📅 Jan 2024 — Mar 2024

📍 Japan | Remote

- Developed AI assistant for customer services using Cloudflare Workers, GCP, OpenAI API and React

### Full-Stack Engineer

eightis Co., Ltd.

📅 July 2022 — Aug 2023

📍 Japan | Remote

- Launched and developed SHINTAI: a web and iOS based platform for body-alignment training
  - Web: SvelteKit, Cloudflare Workers and PostgreSQL
  - iOS app: Swift, SwiftUI and Firebase authentication
  - Machine learning: fine-tuning of pose detection model and run on CoreML
- Collaboration work with athletes and trainers

### Co-Founder and Chief Research Officer

QuantumCore Inc.

📅 Oct 2018 — June 2023

📍 Tokyo, Japan | Remote

- Worked on Qore: the core-algorithms to enhance Reservoir Computing(RC)

- 2018 - 2019: Implement RC and data preprocessing algorithms originally written in Python to embedded devices using **C/C++**
  - Achieved **120x faster training time** compared to LSTM and enabled deployment on embedded devices, including Raspberry Pi and M5Stack.
- 2018 - 2023: Created and presented a dozens of PoCs using RC, mainly in the field of *time-series*, *audio processing*, and *image processing*
- 2020 - 2023: Launched, developed and operated Sloos: a minute-taking app for remote workers
  - Applied speaker-detection algorithm with RC to automatically generate meeting minutes
  - Built both backend and web frontend using Flask, Angular, MySQL Azure App Directory, and PAY.JP
  - Reached **over 1,000 installations** in companies across Japan
  - Won Microsoft for Startups partnership
- 2021 - Qore Cloud: a web-based no-code tool for fine-tuning RC models using SvelteKit, prisma, and PostgreSQL

## Projects

### Web Development

I created some websites and web applications. Here are some of them:

- [ryoppippi.com](https://ryoppippi.com): My personal website. It is built using SvelteKit, UnoCSS, and custom markdown-it plugins. I wrote all classes by hand. I created this without any AI/LLM tools.
- [Vim-JP Radio LP](#): A landing page for a podcast presented by vim-jp community.
- [pr.ryoppippi.com](https://pr.ryoppippi.com): A personal page to list up my recent OSS contributions.

### Open Source Projects

I have started and contributed to many open source projects. Here are some of them:

### AI Tools

- [SiteMCP](#) (☆ 500): Fetch an entire site and use it as an MCP Server. This tool scrapes pages from a website, converts into markdown files, cache them, and serves them as a local MCP server. It is useful when you ask LLMs to ask questions about a libraries/documentation.
- [curxy](#) (☆ 316): Simple proxy worker for using ollama in cursor. If we want to use local LLM models in cursor, we need to have a proxy between local ollama server and remote cursor server. This tool is a simple proxy worker for that.

## Web Development / TypeScript Ecosystem

- [unplugin-typia](#) (☆ 62): A plugin for bundlers to use Typia. Typia is a TypeScript validation library which generates logic from TypeScript type. Before this plugin, it was hard to use Typia in bundlers like Vite, Webpack, and esbuild. This plugin made a huge impact on the Typia ecosystem.
- [pkg-to-jsr](#) (☆ 25): Zero-config tool that generates jsr.json from package.json. This tool is useful when you publish node projects into JSR registry.
- [mirror-jsr-to-npm](#) (☆ 15): A tool designed to mirror packages from JSR to npm. It is useful when you want to publish your package to both npm and JSR registries.
- [vim-svelte-inspector](#) (☆ 15): A plugin for Neovim and Vim to integrate with Svelte Inspector or Vue Inspector. When you click a component on the browser, it opens the corresponding component in your vim.
- [sveltweet](#) (☆ 6): A Svelte component for embedding tweets. JavaScript is not required, and it supports both SSR and pre-rendering. It enhances the performance of your website.

## Zig

- [zigcv](#) (☆ 118): Zig bindings for OpenCV. This project is a wrapper for OpenCV in Zig. It is a good example of how to use Zig with C++ libraries.
- [nyancat.zig](#) (☆ 23): Running nyancat in your terminal. Written in Zig.

## Miscellaneous

- “影のキャンバス - *Silhouette on Canvas*” - Interactive art installation with projection mapping. Created with kinect and Processing.

## Publications

- [Artificial Neural Networks for Realized Volatility Prediction in Cryptocurrency Time Series](#) ISNN 2019: Advances in Neural Networks 2019 (Full papers)
- [An Intuitive Interface for Digital Synthesizer by Pseudo-intention Learning](#) Audio Mostly 2019 (Full papers)
- [prometheus: A mobile telepresence system connecting the 1st person and 3rd person perspectives continuously](#) SIGGRAPH Asia 2022 (Poster)

## Talks

- [vim-jp radio #23/#24 \(Japanese\)](#): Talking about academia and open source development
- [Neovim for Frontend Developers: Boosting Productivity and Creativity](#) VimConf 2024

- [Neovim for Web Frontend Developers: Boosting your Dev with some plugins | Neovim Conf 2024](#) neovimconf.live 2024:
- TEDxYouth@Tokyo 2013

## Tech Community Activities

- [vim-jp](#): Active contributor writing technical articles and participating in community discussions
- [Svelte Japan](#): Active member contributing to Svelte Tokyo meetups and community initiatives

## Natural Languages

- English (IELTS 6.5)
- Japanese (Native)

## Education

### Master of Applied Computer Science

*University of Tokyo*

📅 Apr 2019 — Mar 2022

📍 Tokyo, Japan

Applied Computer Science

### Bachelor of Arts

*International Christian University*

📅 Apr 2015 — May 2019

📍 Tokyo, Japan

Information Science Major, Economics Minor  
Dean's List (GPA: 3.86/4)

### Exchange Program

*The University of Edinburgh*

📅 Sep 2017 — May 2018

📍 Edinburgh, UK

School of Informatics

## Other Information

### Visa Status

Already have a work permission without restrictions in UK (**spouse visa**)