Ryotaro Kimura

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

Experience

AI Engineer
StackOne

📅 June 2025 — Present   📍 Remote

- Making unified API platforms AI-friendly for seamless integration with AI systems
- Designing and implementing AI-optimised unified API interfaces for HR technology
- Enhancing unified API accessibility and usability for AI applications and LLMs
- Building intelligent middleware to bridge traditional unified APIs with modern AI frameworks

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*: 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*: 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

- *ccusage* (☆ 5.7k): CLI tool for analysing Claude Code token usage and costs from local JSONL files. Features include daily/monthly/session-based reports, live monitoring, real-time dashboard, model-specific tracking, and cost analysis. Built with TypeScript and designed for incredibly fast and informative insights.
- *SiteMCP* (☆ 690): 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* (☆ 372): 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* (☆ 73): 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* (☆ 26): 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* (☆ 17): 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* (☆ 18): 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* (☆ 129): 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**)