

Ryotaro Kimura


 m.ryoppippi@gmail.com  ryoppippi.com  @ryoppippi  Ryotaro Kimura

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

Experience

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, and TailwindCSS, hosted on AWS
- 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 Inc.


 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
 - My *first experience* of developing a full-stack application. Developed in a month with learning and launched the app on May 2020


- Built both backend and web frontend using Flask, Angular, MySQL and Azure App Directory
- 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

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

Publications

- *Artificial Neural Networks for Realized Volatility Prediction in Cryptocurrency Time Series* ISSN 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)

Natural Languages

English (IELTS 6.5) / Japanese (Native)

Talks

- VimConf 2024
- neovimconf.live 2024
- TEDxYouth@Tokyo 2013

Tech Community Activities

vim-jp / Svelte Japan

Other Information

Visa Status

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