

Timothy Chapin – Full Stack Developer

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 Toyonaka-shi, Osaka, Japan

Full-Stack Developer based in Osaka with hands-on experience building interactive educational tools and games that enhance language learning. Skilled in both Front-End and Back-end development with a passion for learning new technologies.

WORK | VOLUNTEER EXPERIENCE

Audemy.org

Oct. 2024 – Present

Volunteer Full Stack Developer

Remote

- Assisting in developing accessible audio games for visually impaired children.
- Designed a user database for students to keep track of their progress across games.
- Used Google's Speech-to-Text and Voice Recognition API to enable student interaction with games in an easy-to-use interface.

Roppongi High School

Nov. 2021 – March 2025

Assistant Language Teacher

Tokyo

- Programmed interactive PowerPoint games using Visual Basic macros and developed custom browser-based games to enhance student engagement.
- Created engaging quizzes, speaking activities, English exercises, and presentations to enhance students' learning experiences.
- Communicated effectively with students and teachers in Japanese, fostering a collaborative and supportive learning environment.

SELECTED PROJECTS

Olympic Medals API - Developer

<https://bit.ly/3HpdiEM>

Developed a RESTful API providing medal count data from the 2024 Olympic Games using processed CSV data.

- Designed endpoints to serve Olympic medal statistics for use in third-party applications and data visualizations.
- Built with Ruby on Rails and PostgreSQL to ensure efficient data management and querying.

Back-end: Ruby on Rails | **Database:** PostgreSQL

Teach Tokyo - Designer and Developer

<https://bit.ly/4419UIU>

A map-based strategy game used as an engagement tool in the classroom.

- A personal project where I implemented an SVG map of Japan through JavaScript enabling users to conquer different prefectures.
- Full bilingual support for English and Japanese users.
- Received and implemented solutions based on student feedback to improve the project.

Back-end: Ruby on Rails | **Hosting Platform:** Heroku | **Development Time:** 3 Months

Tokyo Maps - Project Manager | Backend Developer

<https://bit.ly/4mH1NJ3>

Developed a user-friendly, interactive map of Tokyo's 23 wards to help expats relocate to Tokyo.

- Created an interactive map using MapBox API along with public geolocation data of Tokyo.
- Used a custom color scaling function based on data to display each category through a filter option.
- Led a four-member team as Project Manager, setting milestones and facilitating agile practices.

Frontend: MapBox / **Back-end:** Ruby on Rails / **Hosting Platform:** Heroku

SKILLS

Frontend: React (Hooks, Redux Toolkit), JavaScript

Backend: Ruby on Rails (CRUD, MVC, validations, input sanitization)

Databases: PostgreSQL (schema design, migrations), MongoDB (introductory level)

Dev Tools: Git/GitHub (branching, merging), Docker, Heroku, Netlify

EDUCATION

Le Wagon Bootcamp - Tokyo

Full Stack Web Development

March 2023

<https://bit.ly/45DMURL>

Michigan State University

BA, Japanese Language Studies

May 2020

<https://shorturl.at/SNvt6>

COURSES + CERTIFICATES

Modern React with Redux

Stephen Grider

August 2024

Udemy

PostgreSQL for Everyone Basic + Intermediate

Prof. Charles Severance

August 2024

University of Michigan Online

JLPT N3 Certificate

Japanese Language Proficiency Test

December 2023

Tokyo, Japan

JLPT N2 (scheduled)

Japanese Language Proficiency Test

July 2025

Osaka, Japan