

# Timothy Chapin – Full Stack Developer

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Portfolio: <https://timchapin.dev> | GitHub: <https://github.com/timchapin96>

Location: Toyonaka-shi, Osaka, Japan

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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

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**Volunteer Full Stack Developer** | Audemy.org | Remote | Oct. 2024 – Present

- 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.

**Assistant Language Teacher** | Roppongi High School | Tokyo | Nov. 2021 – Mar. 2025

- 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

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**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:** 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:** HTML&CSS, Mapbox GL JS / **Back-end:** Ruby on Rails / **Hosting Platform:** Heroku

## SKILLS

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**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

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**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

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**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