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   <u>**https://bit.ly/4mH1NJ3**</u>
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   **March 2023**
Full Stack Web Development   *https://bit.ly/45DMURl*

Michigan State University   **May 2020**
BA, Japanese Language Studies   *https://shorturl.at/SNvt6*

COURSES + CERTIFICATES

Modern React with Redux   **August 2024**
Stephen Grider   Udemy

PostgreSQL for Everyone Basic + Intermediate   **August 2024**
Prof. Charles Severance   *University of Michigan Online*

JLPT N3 Certificate   **December 2023**
Japanese Language Proficiency Test   *Tokyo, Japan*

JLPT N2 (scheduled)   **July 2025**
Japanese Language Proficiency Test   *Osaka, Japan*