Timothy Chapin – Full Stack Developer

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Full-Stack Developer based in Tokyo with experience in creating interactive educational tools and engaging games. Passionate about leveraging technology to enhance language learning and user experience. Good knowledge in both Front-End and Back-End development.

WEB PROJECTS

Teach Tokyo - Principal Web Designer and Developer   www.teachtokyo.com

Designed and developed a map-based quiz strategy game as in classroom warmup before lessons.

- Implemented an SVG map of Japan through JavaScript enabling users to conquer different prefectures.
- Full bilingual support for English and Japanese using the i18n library.
- Received and implemented solutions based on student feedback to improve the project.

Frontend: HTML, CSS, JavaScript; **Back-end***: Ruby on Rails;* **Server***: Heroku*

Tokyo Maps - Project Manager   Demonstration

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.
- Acted as Project Manager in group of four to set development goals and distribute tasks appropriately.
- Hosted weekly stand-up sessions to ensure development progress as well as adequate team synergy.

Frontend: HTML, CSS, JavaScript, MapBox; **Back-end***: Ruby on Rails;* **Server***: Heroku*

Olympic Medals API- Principal Web Designer and Developer   Olympic Medals API

Developed a RESTful API to provide medal count data from the 2024 Olympic Games.

- Normalized 2024 Olympic Medals data file into a Rails API Application.
- Wrote a custom Sanitization class for cleaning incoming parameters from user.

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

SKILLS

Programming Languages:

- **HTML, CSS**: Strong knowledge of semantic markup, responsive layouts, and accessibility best practices.
- **JavaScript**: Strong knowledge of DOM manipulation and interactive component development.
- **Ruby**: Good knowledge in utilizing Ruby to find solutions to complex sorting problems.

Frontend Frameworks:

- **React**: Good knowledge of React Hooks and State manipulation, as well as Redux Toolkit fetching methods.

Backend Frameworks

- **Ruby on Rails**: Good knowledge of Rails CRUD methods, input sanitization, parameter queries, validations, and MVC architecture.

Databases:

- **PostgreSQL**: Good knowledge of relational database structure and migrations best practices.
- **MongoDB**: Beginner knowledge of non-relational databases and when to use them over relational databases.

Tools & Technologies:

- **Version Control**: GitHub (branching, merging)
- **Deployment**: Familiar with Heroku and Netlify for application hosting.

Additional Skills:

- **MapBox API**: Good knowledge of integrating MapBox for interactive mapping and geospatial data visualizations.
- **Canva**: Good knowledge of creating graphics and visual content for web and social media.

EDUCATION

Le Wagon Bootcamp - Tokyo   September 2022-March 2023

Full Stack Web Development   *Certificate*

Michigan State University   August 2018 - May 2020

BS, Japanese Language Studies   *Diploma*

COURSES + CERTIFICATES

Modern React with Redux   **March 2023-August 2024**
Stephen Grider   *Udemy*

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

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

WORK EXPERIENCE

Roppongi High School   **Nov. 2021 – Present**
Assistant Language Teacher   *Tokyo*
- Use my coding knowledge to make fun and interactive Web Games/PowerPoints to boost students engagment in the classroom.
- Create engaging quizzes, speaking activities, warm-up exercises, and presentations to enhance students' learning experiences in English.
- Communicate effectively with students and teachers in Japanese, fostering a collaborative and supportive learning environment.

LANGUAGES

- **English** (Native)
- **Japanese** (Intermediate)

HOBBIES

- **Gaming** (Beginner)
- **Reading** (Novice)
- **Studying** (Expert)
- **Baking** (Occasional success)