Erick Watanabe

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TECHNICAL SKILLS

Programming Languages | JavaScript ES6+, Python 3, TypeScript, SQL, HTML5, CSS
Front-End | React, Next.js, React Hooks, Redux Toolkit, DOM manipulation
Back-End | Django 4, PostgreSQL, MongoDB, FastAPI, RabbitMQ
System Design | Microservices, Domain-driven design, Message passing, Data synchronization

PROFESSIONAL EXPERIENCE

Full Stack Engineer Contractor | Valter Tennis | Link | *Next.js, Firebase, TypeScript*   2024 - current
- Currently designing and implementing features to digitize key business processes, enhancing operational efficiency for administrators and tennis coaches
- Enhanced search engine optimization (SEO) by applying correct tags, utilizing keywords, a sitemap, and robot's file, resulting in an 85% increase in traffic originating from Google searches
- Created a responsive main navigation bar for the website, ensuring seamless functionality across devices, which led to a 54% increase in clients accessing the site through mobile browsers
- Spearheaded feature development to boost user engagement and drive purchases, overseeing UI/UX design, backend architecture, and integration with existing codebase

Visiting Assistant Professor of Physics | Loyola Marymount University   2017 - 2021
- Taught a variety of courses: Introduction to Mechanics, General Physics I & II, College Algebra, Pre-Calculus, and Quantitative Skills in the Modern World
- Adapted curricula for both synchronous and asynchronous learning environments, utilizing technology and interactive resources to facilitate effective remote instruction

APPLICATION DEVELOPMENT EXPERIENCE

Animos | Software Engineer | Repo Link | *JavaScript, React, Python 3, FastAPI, MongoDB*   2023
Single-page application allowing users to create and attend pet friendly events
- Built the EventsList component to display the current state of events using **React's Redux** global state management
- Wrote the delete method for events in Mongodb by using multiple methods to query collections to ensure data was clean
- Synchronized the events and location data in React and JS to ensure events are accurately rendered

DealerSys | Software Engineer | Repo Link | *React, Javascript, Python 3, Django, PostgreSQL*   2023
single-page application that keeps track of a car dealership's inventory, sales, and services
- Implemented service record microservice using **React** and **React Hooks** for users to create appointments, updating the appointment list and service history in real time
- Created filtering methods using for real-time data to display service appointments based on VINs and appointment status with polling
- Built fetching method to dynamically and efficiently handle different parameters to simplify code

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate   2023
California State University, Long Beach | M.A. Experimental Physics   2016
The University of California, Merced | B.A. Physics   2011