Wilson Chan | Software Engineer

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I bridge software engineering and physical therapy to create innovative solutions in health and fitness. Passionate about empowering individuals, I leverage my expertise in human physiology to develop impactful applications. My goal is to push boundaries in tech-driven health and wellness for global impact.

Technical Skills

Languages: Python, JavaScript, HTML, CSS, SQL, MongoDB, JSON, EJS
Libraries and Frameworks: React, Express.js, Django, JQuery, Bootstrap
Databases and other: PostgreSQL, MongoDB, RESTful Routing, Github

Technical Projects

Exercise Co | GitHub - React | Firebase | Node.js | Bootstrap
Single-page exercise webapp to allow authenticated users to keep track of exercises
- Implemented user authentication and authorization to ensure secure access to the app.
- Created a responsive user interface using Bootstrap, ensuring a seamless experience across different devices.
- Implemented real-time updates using Firebase to provide users with instant feedback on changes on the database

RepOne |GitHub - HTML | MongoDB | Express |Node.js | CSS
Exercise web app to help keep track of exercises and filters within an API for new exercises to add.
- Implemented a MongoDB database to store exercises, enabling efficient data retrieval and storage.
- Designed API integration to fetch new exercises, enhancing the app's exercise library.
- Utilized Express.js to build a robust backend that handles routing and API requests.

Exercise Tracker |GitHub - HTML | Python | Django
CRUD exercise web app to allow individuals to share exercises.
- Enabled users to log in, create, edit, and delete exercises, fostering better exercise management.
- Created a responsive front-end interface using Materialize to ensure an engaging and user-friendly experience.
- Utilized Django's Model-View-Controller (MVC) architecture to implement the CRUD functionality.

Professional Experience

Kins Physical Therapy – *Per diem*   August 2022 - Current
Concierge Physical Therapist
- Develop and implement treatment plans for patients with musculoskeletal and neurological conditions via consumer-grade digital platform to promote access and adherence
- Sustain evidence-based practices in biopsychosocial care while improving patient-reported outcomes from initial visit by 77% prior to discharge
- Implement product management principles, such as pre-post testing and customer feedback analysis, to continuously enhance patient engagement, satisfaction, and outcomes
- Conduct evaluative testing in 100% of patients using functional outcome measures, patient-reported outcomes, and movement screening to assess efficacy of treatment plan and inform future sessions.

Education

General Assembly   *Expected Completion: August 2023*
Full-stack software engineering 420+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies.

Touro College, Doctoral Degree - Doctor of Physical Therapy   August 2018 - September 2021
University of Pittsburgh, Bachelor of Science - Rehabilitation Science   August 2013 - April 2017