Hussein Eid

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EDUCATION

App Academy - *Immersive 1000+ hour software development course with focus on full stack web development* (April 2021)

University of Southern California - *Orthopedic Physical Therapy Residency* (August 2018)

Rutgers School of Health Professions - *Doctorate in Physical Therapy* (May 2017)

New Jersey Institute of Technology, Albert Dorman Honors College - *B.S. Biology* (August 2014)

SKILLS   React, Redux, JavaScript, TypeScript, NodeJS, Express.js, Ruby, Python, Flask, SQLAlchemy, Sequelize, Amazon Web Services S3 (AWS), PostgreSQL, Flask-SocketIO, Socket.IO, SQL, Git, Heroku, HTML5, CSS3, ES6, TDD, jQuery, Mocha, Chai, Pytest

PROJECTS

FulcrumPhysio   Live Site | Github | Article

A physical therapy exercise program generator created with React / Redux, Javascript, Python, Flask, SQLAlchemy, PostgreSQL

- Created orthopedic physical therapy rehabilitation plan generator with React, Redux, and Flask-SQLAlchemy to give users the ability to get a customized diagnosis and plan by navigating through a multi-step questionnaire
- Provided custom exercise plans with 150+ questions and 12,000 possible combinations by managing a complex state tree using a directional graph with O(1) lookup for optimal time complexity
- Managed a complex user state flow with 200+ potential paths by leveraging React & Redux
- Enabled healthcare professionals to populate directional graph from a CSV interface that updates the state tree in the database

Discordance   Live Site | Github

A Discord clone created with React / Redux, Javascript, Python, Flask, SQLAlchemy, Flask-Socket.IO, Socket.IO, PostgreSQL, AWS

- Created a fully functioning clone of Discord with ability to send, edit and delete chat room and messages in real time by leveraging WebSockets in Flask using Socket.IO
- Implemented upload functionality for user profile images by connecting Flask backend to AWS S3 allowing for increased scalability and improved user experience
- Managed server, channel, and message CRUD through custom transactional database operations using Flask / SQLAlchemy
- Led the UI functionality design and implementation by delegating tasks using agile workflow and git to avoid merge conflicts and maximize productivity

NoiseNimbus   Live Site | Github

A SoundCloud clone created with React / Redux, Javascript, HTML5, CSS, Express, AWS, PostgreSQL

- Created a music player with song upload functionality using React's local state to hold record of current song metadata for responsive user playback and scrubbing
- Developed functionality for uploading songs utilizing AWS S3 and express backend to optimize storage for the application
- Integrated Express / Sequelize back end to create full CRUD functionality for comments, improving overall user experience
- Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for form inputs and form submissions

EXPERIENCE

Clinic Owner/Director - *Fulcrum Physical Therapy*   October 2018 - Present

- Manages scheduling, clinic marketing, outreach, and internal billing, saving the business $15,000 per year
- Generated more than $300,000 in revenue per year while managing two employees and establishing a flagship clinic

Adjunct Faculty - *Rutgers School of Health Professions*   August 2015 - Present

- Prepared and independently delivered doctorate-level lectures to class sizes 10 - 100 students in person and via Zoom
- Developed and lectured new content area for lectures based on professional research on chronic pain

Clinic Director - *Ivy Rehab / Augustin Orthopedics*   March 2019 - October 2020

- Collaborated with industry professionals and implemented internal marketing strategies, doubled clinic revenue in 9 months
- Improved patient retention and compliance by 15% per quarter, increasing clinic revenue by $80,000 per quarter

Physical Therapy Resident / Staff Therapist - *Harbor Physical Therapy and Sports Medicine*   June 2017 - March 2019

- Provided full-time clinical care in addition to completing a residency while receiving greater than 150 hours of mentorship in clinical reasoning from both orthopedic and sports clinical specialists and orthopedic surgeons
- Collaborated on a weekly basis with University of Southern California and Torrance Memorial surgeons to improve patient outcomes and decrease likelihood of elective surgeries