

# Hussein Eid

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## EDUCATION

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

**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

### Sort-By-New

[Live Site](#) | [Github](#)

An interactive sorting algorithm visualizer created with React, TypeScript, and MaterialUI

- Created custom animation function to visualize bubble, insertion, selection, quick, and merge sort algorithms
- Designed functional theme chooser and ability to customize animation speed and array size to enhance user experience

### Discordance

[Live Site](#) | [Github](#)

A Discord clone created with React / Redux, Javascript, Python, Flask, SQLAlchemy, Flask-SocketIO, 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
- 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 using React's local state for responsive scrubbing and user playback
- 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

### Physical Therapist - Fulcrum Physical Therapy/Ivy Rehab

September 2017 - October 2021

- Generated more than \$300,000 in revenue per year while treating and managing two employees to establish a flagship clinic
- Managed scheduling, clinic marketing, outreach, and internal billing, saving the clinic \$15,000 per year

### Software Developer - Rutgers School of Health Professions

August 2015 - August 2017

- Collaborated with team of developers and researchers to build an application to aggregate doctoral level seminars by state
- Built a web server using node.js to perform API calls to load continuing education credit seminars to the user
- Performed code reviews and debugging for the application front end using React to decrease page load times by 20%
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### UI Software Developer / Research Assistant - Gluck Labs

February 2014 - February 2016

- Built front end user interface using HTML, CSS3, and Javascript to create laboratory application which was used to assess the

cognitive and motor skills of patients who suffered from Parkinson's and Alzheimer's Disease

- Collaborated with back-end developer to ensure proper rendering of data to the user as well as appropriate data collection