

# Brandon Choi | Software Engineer

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 Portfolio |  LinkedIn |  GitHub



## SKILLS

Languages: JavaScript, Ruby, SQL, HTML5, CSS3; In Progress: Python/Django, TypeScript  
Frameworks/Libraries: React, Redux, Node, Express/Mongoose, Ruby on Rails/Active Record, jQuery  
Databases: RDBMS – PostgreSQL, NoSQL – MongoDB  
Tools/Testing: Amazon Web Services (AWS) S3/IAM, Git, RESTful APIs, Webpack, Postman, Jasmine, Jest, RSpec

## PROJECTS

### NexUs / Fullstack Engineer (React, Redux, HTML/CSS, Ruby on Rails, PostgreSQL, AWS)

[Live](#) | [GitHub](#)

*A professional networking, social media application inspired by LinkedIn*

- Delivered a fully functional, full-stack web application within a 2-week sprint, with a robust user authentication system, utilizing bcrypt for secure password hashing, ensuring the highest level of data security and user privacy
- Leveraged AWS S3 to manage file upload/retrieval, enhancing data security through AWS Identity and Access Management (IAM) while significantly boosting page-load performance, scalability, and data durability relative to using local file storage
- Implemented infinite scroll/lazy loading functionality for posts on the feed page, streamlining content delivery
- Engineered a dynamic search bar with live autocomplete, enhancing user profile search capabilities
- Prioritized performance through strategic optimizations to enhance user experience, including efficient database queries (preventing N+1 queries), Redux for state management, and memoization of React components

### itinerator / Team Lead Engineer (React, Redux, HTML/CSS, Express/Mongoose, Node, MongoDB, Google Maps API) [Live](#) | [GitHub](#)

*A custom travel itinerary planner and social media application built with the MERN stack, offering a generative travel experience*

- Led a team of 3 engineers through a 4-Day sprint, managing Git-based codebase integrity to prevent unnecessary merge conflicts, while collaborating closely with the project manager to ensure timely delivery of core MVP features
- Integrated and customized the functionality of three APIs – Google Maps JavaScript API (Places API, Geocoding API), and HTML5 Geolocation API – to provide advanced, real-time location-based features
- Facilitated communication between frontend and backend, ensuring a shared product vision, resulting in a cohesive UX

### myFitnessBuddy / Frontend Engineer (JavaScript, HTML, CSS, RESTful API)

[Live](#) | [GitHub](#)

*A Vanilla JavaScript workout generator/visualizer using DOM manipulation*

- Built an algorithm-powered dynamic navigation carousel that updates when users add, remove, or view exercises
- Developed a body map utilizing CSS Grid, allowing users to interact with both anterior and posterior muscular regions
- Implemented an asynchronous exercise selection and display system, dynamically fetching exercise details and GIFs

## WORK EXPERIENCE

### New York Therapy & Wellness (NYTW) / Physical Therapist

Jan – Sep 2022

- Developed a Ruby script to automate the creation of personalized home exercise programs for patients, considering their impairments, functional levels, and goals, streamlining healthcare operations
- Spearheaded the establishment of a new, collaborative venture with renowned senior living facility Aterot Avot, assuming a crucial role as the exclusive Physical Therapist and ambassador overseeing the plan of care of 10-15 residents concurrently
- Managed a caseload of 25+ clients across South Brooklyn, ensuring seamless communication among various stakeholders, including family members, hospitals, insurance providers, and physicians to maximize client and stakeholder satisfaction

## EDUCATION

### App Academy, NY – Fullstack Software Engineering

Mar – June 2023

- 1200+ hour intensive, in-person software development [program](#) with a focus on fullstack web development, computer science fundamentals, object oriented programming, data structures & algorithms, and paired programming
- < 3% acceptance rate; 15-20% attrition rate

### Emory University, GA – Doctor of Physical Therapy (D.P.T.) / GPA: 4.0 *summa cum laude*

Sep 2016 – May 2019

- Published a research paper about the utility of data-driven algorithms in personalizing interventions for post-stroke patients

### Boston College, MA – Bachelor of Arts in Psychology (B.A.) / GPA: 3.8 *magna cum laude*

Sep 2011 - May 2015