

Brandon Choi | Software Engineer

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 Portfolio |  LinkedIn |  GitHub



SKILLS

Languages: JavaScript (ES5 to ES8), Ruby, SQL, HTML5, CSS3; In Progress: Python/Django, TypeScript
Frameworks/Libraries: React, Redux, Material UI, Node, Express/Mongoose, Ruby on Rails/Active Record, jQuery
Databases: RDBMS – PostgreSQL, SQLite, NoSQL – MongoDB
Tools/Testing: Amazon Web Services (AWS) S3/IAM, Git, RESTful APIs, Webpack, Postman, Jasmine, Jest, RSpec, Agile

RECENT PROJECTS

NexUs / Full-stack 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 for feed page posts with Intersection Observer API, streamlining content delivery
- Engineered a dynamic user search bar with live autocomplete by integrating Redux for rapid retrieval of search results
- Prioritized performance through strategic optimizations to enhance user experience, including efficient database queries via eager loading (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, prioritizing low latency for responsive UX
- Conducted three daily stand-ups to ensure a shared product vision between front-end and back-end development

myFitnessBuddy / Front-end Engineer (JavaScript, HTML, CSS, RESTful APIs)

Live | GitHub

A Vanilla JavaScript workout generator/visualizer utilizing DOM manipulation

- Implemented an asynchronous exercise selection system that fetches and displays exercise instructions, involved musculature, and GIFs from two external RESTful APIs to provide an aesthetically pleasing and educational user experience
- Built an algorithm-powered, dynamic navigation carousel that updates when users add, remove, or view exercises

EXPERIENCE

Scale AI (in partnership with OpenAI) / Computer Science AI Trainer (JavaScript, TypeScript, Python, C++)

Nov 2023 – Present

- Critique a series of computer science and programming-related responses produced by GPT-3.5 in terms of explanation quality, style and formatting, code functionality and performance, relevance, and security to fine-tune the AI model

Nola's / Software Engineer, Freelance (React, Material UI, HTML, CSS, Python, Django, SQLite, Electron)

Oct 2023 – Present

- Leading the front-end development for a startup MVP named *Hive*, a cross-platform, open-source desktop application tailored for a successful restaurant conglomerate with multi-location presence
 - Hive's* primary goal is to automate employee payout processes, streamline payment breakdowns, and enhance sales tracking, reducing costly accounting errors previously managed solely in Google Sheets
- Directing Agile project workflows, leveraging a Jira Kanban board for effective task management and retrospectives

New York Therapy & Wellness / Doctor of Physical Therapy

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, reducing average documentation time per treatment note by ~13%

EDUCATION

App Academy, NY – Full-stack Software Engineering Program (in-person)

Nov 2022 – June 2023

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

Sep 2016 – May 2019

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

Sep 2011 – May 2015