Brandon Hach

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EDUCATION

The University of North Carolina at Charlotte   **Charlotte, NC**
BS in Computer Science, Software Engineering Concentration   *August 2021 - May 2024*
Senior | 3.4 GPA | Dean's List 2021

SKILLS

Technical Skills: Java, Python, Javascript, MongoDB, MySQL, HTML, CSS, Git Bash, Postman

Frameworks: React.js, Next.js, Springboot, Tailwind

PROJECTS

[Marco-Tracker](#) (React.js, Recharts.js, Javascript, Firebase, HTML, CSS)
- Collaborated with a team of three to design and develop a nutritional tracking web application.
- Bootstrapped with React.js for the front end and delivered an intuitive and responsive user interface.
- Facilitated Firebase for user authentication to enable robust sign-up and sign-in functionalities. Utilizing Firebase as the database solution for efficient data storage and retrieval.
- Implemented a form for users to input food items' nutritional values and establish daily macro goals. Visual discrepancies between nutrient intake and set user goals are presented through interactive pie charts and bar graphs using the rechart.js library.
- Upheld best practices in version control to consistently conduct pull requests and adhere to Git etiquette, emphasizing code quality and team collaboration. This approach streamlined code reviews, reduced merge conflicts, and fostered smooth team collaboration.

[Personal Portfolio Website](#) (Next.js, React.js, Javascript, Framer Motion, Three.js React Fiber, HTML, CSS)
- Developed an interactive personal portfolio leveraging Next.js and React.js for efficient server-side rendering and UI component structure. Next.js framework supports production optimization and server-side rendering, achieving faster page load time and responsive UI.
- Deployed into production on Vercel, ensuring optimal performance and accessibility for users. Benefited from Vercel's rapid hosting and straightforward deployment through its integrated support with the Next.js framework.
- Incorporated Framer Motion to create engaging animations and transitions, increasing user engagement. Additionally, integrated Three.js with React Fiber to introduce immersive 3D visual models that distinguished the portfolio—which received positive feedback for its modern and sleek design and intuitive webpage layout.
- Utilized HTML and CSS to design a responsive and visually appealing layout compatible with the most common devices and screen sizes.
- Introduced a contact form with real-time email notifications through email.js, enhancing user interactivity and providing direct communication capabilities.

[Movie Review](#) (Java Springboot, React.js, MongoDB, HTML, CSS)
- Developed a comprehensive movie review platform utilizing Java Spring Boot and MongoDB for the backend and React.js for the front end.
- Constructed the front-end user interface using React.js, styled the website, and provided a user-friendly interface.
- Utilized MongoDB for data management and imported content directly from .JSON files.
- Implemented a REST API for handling client-server communications.
- Used Postman and Ngrok to test database and spring-boot connections in local development.
- Integrated React.js with Spring Boot through API calls, utilizing Axios.

STUDENT ORGANIZATION

Association for Computing Machinery (ACM)

Club Member