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

Skills: Java, React.js, Next.js, HTML, CSS, Javascript, Springboot, MongoDB, Postman, MySQL, Python, C, Ngrok, Git

RELATED COURSEWORK

- Data Structures and Algorithm
- Database and Design Implementation
- Computer Architecture
- Mobile App Development
- Logic and Algorithms
- Computing Professionals II

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. Demonstrated proficiency in NoSQL by utilizing Firebase as the database solution for efficient data storage and retrieval.
- Implemented features 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.
- Established a seamless connection between the front end and Google's Firebase, ensuring a cohesive user experience.
- Upheld best practices in version control, consistently conducting pull requests and adhering to Git etiquette, emphasizing code quality and 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.
- Incorporated dynamic animations and transition user Framer Motion to enhance user engagement and experiences.
- Integrated Three.js with React Fiber for 3D visual elements, setting the portfolio apart with interactive, immersive models.
- Utilized HTML and CSS to design a responsive and visually appealing layout compatible with the most common devices and screen sizes.
- Implemented 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 back end and React.js for the front end.
- Engineered front-end user interface using React.js, styled the website and provided a user-friendly interface.
- Integrated MongoDB to handle data storage and retrieval, showcasing a practical understanding of NoSQL database. Imported data effectively from a .JSON file, demonstrating data manipulation and migration skills.
- Implemented a REST API for handling client-server communications.
- Used Postman and Ngrok to test database and spring-boot connections in local development.
- Established seamless connection between front end and back end via API calls.