Brandon Hach

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EDUCATION

The University of North Carolina at Charlotte   **Charlotte, NC**
BS in Computer Science, Software Engineering Concentration, GPA 3.54   *August 2021 - May 2024*

SKILLS

Programming Languages: TypeScript, Python, JavaScript, Java, HTML, CSS

Frameworks: React.js, Flask, Next.js, Express.js, Angular, Tailwind

DBMS: PostgreSQL, Prisma, MongoDB, MySQL

Others: Postman, Git, Git Bash, Docker, Notion, DataGrip, VScode, Figma, VirtualBox, VScode, Ubuntu

PROJECTS

[Repguard](#) (Next.js, TypeScript, Tailwind, Docker)
- Wrote docker-compose which is used for containerizing & encapsulating application code, dependencies, and runtime environments. Leading to a significant reduction in environmental-related issues and streamlined seamless integration for local development
- Implemented secured authentication flows with NextAuth, including OAuth integration with providers like Google & Discord, and Magic Link using a resend library with a custom domain
- Utilized PostgreSQL to store persistent data using Prisma and query for complex store/retrieval using multiple clauses written with typescript and functions provided by Prisma's type-safe API
- Conducted a 3-4 week agile sprint where releases were made after all user stories assignments were completed. Used Git-Bash as the CLI, GitHub for Git Version Control & project management, and Discord for team communication

[Collaborative Whiteboard WebApp](#) (React.js, Flask, PostgreSQL, Python, JavaScript, Tailwind, DaisyUI)
- Oversaw front-end development using React.js, DaisyUI, and Tailwind, crafting a sleek, minimalist bento-inspired design layout
- Managed project workflows by leading the team, assigning user stories, hosting weekly Agile sprint meetings, and making releases for each project milestone on schedule
- Developed CRUD API server using Flask with user authentication and authorization (encrypted with bcrypt), and RESTful services consumed by React.js for a dynamic front-end experience
- Helped implement socket.io for communication between the client and server. Implemented Konva.js for building the whiteboard and tools for the user in React.js

[Personal Portfolio Website](#) (Next.js, TypeScript, Tailwind, DaisyUI, Framer Motion)
- Leveraged Next.js and UI component structure with DaisyUI to build a portfolio website showcasing projects and personal interests in a clean and professional aesthetic
- Deployed and took advantage of Vercel's straightforward rapid hosting deployment through its integrated support with the Next.js framework, ensuring optimal performance and accessibility for all users

[Luxury Cheese Marketplace](#) (Express.js, JavaScript, Tailwind, MongoDB)
- Implemented Model-View-Controller (MVC) architecture featuring modularized routing, controller-based business logic, models for CRUD-based operations, and Express's EJS templating engine
- Utilize middleware such as Multer for file uploads, Morgan for logging requests & errors, customized middleware for user authentication, and input form validation & sanitization for security to protect against CSRF & SQL injection vulnerability using express-validator packages

STUDENT ORGANIZATION

Association for Computing Machinery (ACM)

Club Member

- Participated in weekly meetings with club members by socializing, practicing, and learning about the software engineering industries from associates
- Worked with other members to tackle Leetcode questions by building algorithms and using data structures
- Learned and reinforced my knowledge of Python