

Brandon Hach

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EDUCATION

The University of North Carolina at Charlotte

BS in Computer Science, Software Engineering Concentration, GPA 3.54

Charlotte, NC

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: Agile Methodology, Postman, Git, Docker, Notion, DataGrip, Figma, VirtualBox, Ubuntu

PROJECTS

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 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

Repguard (Next.js, TypeScript, Tailwind, Docker)

- Led a 3-4 week agile sprints where releases were made after all user stories assignments were completed.
- Wrote docker-compose, used for containerizing & encapsulating application code, dependencies, and runtime environments. Initiated 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

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