Brandon Hach

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EDUCATION

The University of North Carolina at Charlotte   **Charlotte, NC**
B.S in Computer Science, Software Engineering Concentration   *May 2024*

SKILLS

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

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

DBMS: PostgreSQL, Prisma, MongoDB, MySQL

Technologies: Microsoft Azure, Agile Methodology, Postman, Git, Docker, Notion, DataGrip, Figma, Ubuntu

WORK EXPERIENCE

UPS Capital   **Atlanta, GA**
Application Developer Intern   *May 2025 - August 2025*

- Integrated Docusign to enable e-signature process utilizing Angular, TypeScript, and SASS to streamline subrogation signatures, 85% estimated increase in efficiency & document signing success rate

- Collaborated in a Agile team with cross-functional stakeholders, validating business requirements and ensuring high-quality solutions align with the business's overall intention & goals

- Assumed ownership of InsureShield customer-facing application, worked on PBIs to revamp certain UI components and adjust functional logic accordingly, enhancing user & business experiences

- Helped author comprehensive technical documentation with a sequence diagram to transfer knowledge ahead of my departure to my team, ensuring clarity on software architectural flows and references

PROJECTS

Collaborative Whiteboard WebApp

- Built a custom API backend server utilizing Flask with user authentication and authorization (encrypted with bcrypt), & RESTful services consumed by a dynamic frontend service (React)

- Helped implement socket.io for bi-directional communication between users, also utilized to implement whiteboard collaboration functionality and private direct-room messaging

- Oversaw front-end development utilizing React & Tailwind, crafting a sleek, minimalist bento-inspired design layout for enhancing user experiences

- Managed project workflows to lead my capstone team by planning project execution, hosting weekly Agile sprint meetings, and making releases for each project milestone

Repguard

- Integrated Docker into my team's dev environment, used for containerizing & encapsulating application code, dependencies, and runtime environments, reducing environmental-related issues

- 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

Luxury Cheese Marketplace

- 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

CAMPUS INVOLVEMENT

Association for Computing Machinery (ACM)

Club Member   *September 2024 - May 2024*