

# Brandon Hach

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## WORK EXPERIENCE

### UPS Capital

Atlanta, GA

*Application Developer Intern*

*May 2025 - August 2025*

- Integrated Docusign to enable e-signature process utilizing Angular, TypeScript, ASP.NET, C#, and SASS to streamline subrogation signatures, 85% estimated increase efficiency in document signing success rate
- Collaborated in a daily agile sprint standup with cross-functional stakeholders, validating business requirements and ensuring high-quality solutions align with the business's overall intention & goals
- Contributed to development & ownership of InsureShield's customer-facing application, worked on work items to deliver adjustments to UI and functional logic, enhancing user & business experiences
- Performed comprehensive technical writing for documentation and diagramming 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 client (React)
- Implemented 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
- Led & managed project workflows for my capstone team by planning project execution, devising software architecture, 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 secure 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

## SKILLS

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

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

**DBMS:** PostgreSQL, Prisma, MongoDB, MySQL

**Technologies:** Azure DevOps, Agile Methodology, Postman, Swagger, Git, Docker, Notion, Figma, Ubuntu

## EDUCATION

**The University of North Carolina at Charlotte**

Charlotte, NC

*B.S in Computer Science, Software Engineering Concentration*

*May 2024*

**Clubs:** Association for Computing Machinery (ACM)