**Samuel Buttonow**

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**EDUCATION AND CERTIFICATIONS**

**Bachelor of Science in Computer Science**

University of North Carolina at Greensboro

* Concentrations in Web development, Security, and database development.
* Final GPA: 3.35
* Dean’s List Fall of 2021, Spring of 2023, Fall of 2024

**CompTIA ITF+ Certification**

**EXPERIENCE**

**Internship - Freelancer Web Developer** TaxInformed LLC and JL Buttonow CPA PLLC | Summerfield, NC

* Designed and developed the company's website, ensuring a seamless user experience and modern functionality.
* Led the architecture and implementation of the site's progression and successful launch.
* Manage web hosting, security, and performance optimization to ensure site reliability.
* Collaborate with a team to build a full-scale eCommerce platform for tax services, integrating payment processing and client management features.

**PROJECTS**

**iHive – Senior Capstone Project**

GitHub-Inspired / Shark Tank-Style Web Platform for Entrepreneurs and Investors  
Role: Lead Front-end/Full-Stack Developer | Team Size: 4

* Developed a full-stack web application designed to connect entrepreneurs with investors by allowing users to post innovative ideas. After an Investor has found their perfect investment, they can contact the user and initialize a collaboration. Inspired by GitHub and Shark Tank, the platform includes collaboration tools, real-time chat, and AI-powered features for enhanced discoverability and matching.

**Key Features:**

* AI-Powered Tagging & Search: Integrated OpenAI API to auto-generate tags and enhance idea discoverability.
* Collaboration System: Role-based permissions for idea editing (Public, Protected, Private).
* Real-Time Chat: Enabled investor-innovator communication using WebSockets (Socket.IO).
* Authentication: Implemented secure login/signup using Supabase Auth.
* Investor Matching (Planned): Exploring AI/ML models for automated investor recommendations.

**Tech Stack:**

* Frontend: React, Next.js, Tailwind CSS
* Backend: Node.js, Express.js, PostgreSQL (via Supabase)
* AI Integration: ChatGPT API
* Real-Time Messaging: Socket.IO
* Deployment: Vercel (Frontend), Render (Backend)

**SKILLS**

**Computer Science:**

* **Languages**: Java, C, Python, PHP, Assembly, HTML, CSS, JS, TypeScript
* **Developer Tools**: VS code, GitHub, Vercel, Render
* **Frameworks:** React, Node.js, Laravel, Next.js, Tailwind CSS, Socket.io, Express.js
* **Databases:** PostgreSQL, SQLite, Supabase

**Other Skills:**

* WordPress
* GitHub
* Web Development
* Full-stack development
* Security (UNCG CSC 481)
* AI (UNCG CSC 429)
* Network based projects and development.

**Experience:**

* Microsoft Suite
* Customer service
* Time management
* Independent project management
* Team project management
* Hosting management