Preston Fox

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Full Stack Software Engineer

Full Stack Software Engineer student building real-time web apps, secure backends, and scalable APIs with JavaScript, Python, and Rust. Experienced in databases, third-party integrations, and delivering production-ready solutions.

Skills

Languages: JavaScript, TypeScript, Python, Rust, Java, HTML, CSS, SASS, SQL
Frameworks/Technologies: React, React Native, Vue, NodeJS, Flask, Django, Tailwind CSS
Databases & Tools: Supabase, MySQL, PostgreSQL, MongoDB, Docker, Git, GitHub
Other Skills: Agile Development, Problem Solving, Team Collaboration, Adaptability

Experience

Inventory Associate & Independent Software Developer   June 2022 - Present
Retail Services WIS Corporation   **Elmira, New York**
[GitHub Repo](#)

- Conducted inventory audits at **250+ Walmart and Sam's Club locations**, maintaining 99% accuracy under tight deadlines.
- **Developed a Windows desktop app** to automate reporting and monitor individual/team performance and miscounts.
- **Engineered multi-table SQL queries** and PDF reports used daily by management, improving operational efficiency.
- Created **102+ test cases** to ensure reliability in a fast-paced production environment.
- **Contributed to team performance ranked #1 company-wide for two consecutive years.**

Projects

Knowledge Hub
Full Stack Developer | React, TypeScript, Supabase, PostgreSQL, Tailwind CSS
[GitHub Repo](#) | [Live Demo](#)

- Built a collaborative knowledge platform with React and Supabase, supporting **100+ concurrent tasks.**
- Implemented resources, bookmarking, real-time collaboration, and smart search functionality.
- Implemented Supabase Auth with protected routes and row-level security for secure, user-isolated data.
- Developed a responsive, mobile-first interface optimized for WCAG and **10+ browsers**.

Auction House & E-commerce System
Full Stack Developer | React, Flask, MySQL, Stripe, PostHog, MailerSend, Socket.IO
[GitHub Repo](#)

- Developed a real-time bidding and purchasing system for **50+ concurrent users** using React, Flask, and MySQL.
- Developed admin and user dashboards for managing listings, bids, purchases, and support tickets.
- Implemented real-time chat and bidding with Web Sockets via Socket.IO.
- Integrated Stripe, PostHog, and MailerSend, reliably sending **500+ notifications**.
- Added role-based access and admin tools for listing approvals and ticket management.

Education

Bachelor of Software Engineering, Computer Science   August 2021 - December 2025
Indiana University of Pennsylvania (IUP)   **GPA: 3.3**
Relevant Coursework: Data Structures & Algorithms, Software Engineering Practice, Web Architecture & Application Development, Artificial Intelligence, Unix Systems