

Preston Fox

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Full Stack Software Engineer

Software engineering student focused on full-stack development. I build real-time web apps, secure backends, and scalable APIs using JavaScript, Python, and Rust. Experienced with third-party integrations, databases, and team-based projects.

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

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**.
- Developed resources, bookmarking, real-time collaboration, and smart search features.
- 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](#)

- Built a real-time bidding and purchasing system with React, Flask, and MySQL for **50+ concurrent users**.
 - 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, sending **500+ test notifications** reliably.
 - Added role-based access and admin tools for listing approvals and ticket management.
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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

Additional Experience

Inventory Associate

June 2022 - Present

Retail Services WIS Corporation

Elmira, New York

- Conducted inventory audits across **250+ Walmart and Sam's Club locations** throughout the **Northeastern United States**, ensuring **99% accuracy** under tight deadlines.
- Collaborated with cross-functional teams, often **supporting 3+ divisions simultaneously**, streamlining inventory processes and reducing errors.
- Contributed to team performance that ranked **#1 company-wide for two consecutive years**, recognized for speed, accuracy, and collaboration.
- Developed transferable skills relevant to software development, including **process optimization, data management, and attention to detail**.