

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 | **Python, SQL, Microsoft Access, PyQt6, Jinja2**

Elmira, New York

[GitHub Repo](#)

- Built **WIS Accuracy Report Generator**, a Windows app giving managers insight into employee and team performance.
 - Collaborated with managers during inventory operations to identify workflow inefficiencies and missing analytics.
 - Transformed and combined existing inventory data to calculate individual and team-level metrics and highlight miscounts.
 - Designed an intuitive **PyQt6 interface** and generated dynamic PDF reports for non-technical users.
 - Delivered a fully tested, production-ready solution, improving operational efficiency and decision-making.
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Projects

Knowledge Hub

Full Stack Developer | **TypeScript, React, Supabase, PostgreSQL, Tailwind CSS**

[GitHub Repo](#) | [Live Demo](#)

- Built a collaborative knowledge platform with real-time task management and user workspaces.
- Implemented **Supabase Auth** with **row-level security and protected routes** for secure data access.
- Added bookmarking, shared resources, and smart search for improved collaboration.
- Optimized the interface for accessibility, mobile responsiveness, and performance across **10+ browsers**.

Auction House & E-commerce System

Scrum Master & Full Stack Developer | **JavaScript, React, Flask, MySQL, CSS, Stripe, PostHog, MailerSend, Socket.IO**

[GitHub Repo](#)

- **Led a Scrum team of five** through sprint cycles in a semester-long agile development project.
 - **Managed sprint planning, stand-up meetings, and issue tracking** to deliver a functional production system.
 - Built a real-time auction and e-commerce platform with **live bidding, messaging, and dashboards**.
 - Integrated **third party services**, including **Stripe, PostHog, and MailerSend** for payments, analytics, and notifications.
 - Designed **role-based admin and user panels** for listing, bidding, 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