

Pranshu Chawla

Austin, TX | pranshuchawla19@gmail.com | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Full-stack developer skilled in building secure, scalable, and accessible web applications using modern frameworks. Proven ability to design and ship polished products from scratch, with strong fundamentals in frontend, backend, and DevOps.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python

Frontend: React, Next.js, Node.js, Django, Tailwind CSS, MUI, Chart.js

Backend & Databases: SQL, PostgreSQL, Prisma, Supabase, REST APIs, MongoDB, SQLite

DevOps & Testing: GitHub Actions (CI/CD), Jest, Docker, Vercel

Tools & Systems: Git, Linux, GitLab, VSCode

Core Competencies: Scalable Architecture, Debugging, Accessibility, Test-Driven Development, Agile

PROJECTS & TECHNICAL EXPERIENCE

Kindlore – Personal Knowledge Organizer for Kindle Highlights [\[Live\]](#)

Next.js, TypeScript, PostgreSQL, Prisma, Auth.js, Tailwind CSS

- Production-ready encrypted knowledge organizer for Kindle highlights.
- **Architected and implemented an end-to-end encryption system:**
 - Derived AES-256-GCM keys from user-provided passwords via PBKDF2 with per-user salts stored in the DB.
 - Designed the client-side workflow for encrypting book metadata and highlights before upload, with seamless decryption on retrieval.
 - Ensured zero-knowledge security model, even server operators cannot read user data.
- **Engineered a robust clippings ingestion pipeline:**
 - Built a parser to transform raw clippings.txt into structured book/author/highlight entities, handling malformed inputs gracefully.
 - Implemented automatic de-duplication, enabling safe re-uploads without data loss or repeated highlights.
- Delivered a distraction-free, mobile-optimized interface using reusable React components, enhancing the reflection and reading experience.

Unbound – Web Platform for Sharing Uplifting Reflections [\[Live\]](#)

Next.js (App Router), TypeScript, PostgreSQL, Prisma, Auth.js, Tailwind CSS

- Production-ready full-stack platform for sharing short-form reflections in real time.
- **Built a real-time uplifting feed with voting and moderation controls:**
 - Designed scalable APIs for post creation, upvotes/downvotes, sorting, and flagging, secured via session-based authentication.
 - Implemented moderation workflows (soft-deletion and flag toggling) to safeguard community integrity.
 - Engineered frontend hooks for optimistic updates, state management, and keyboard navigation, delivering a seamless UX.
- **Developed a mindful onboarding flow with validation and transactional email:**
 - Created a multi-step onboarding UI with Code of Honor enforcement and profanity/reserved-word username filtering.
 - Built backend validation endpoints for username uniqueness and safety.
 - Automated welcome email delivery with Nodemailer, improving user engagement and retention.
- Delivered a mobile-first interface with interactive animations via Framer Motion, enhancing accessibility and readability.

WORK EXPERIENCE

IT Technician – College of Business

University of Toledo – Toledo, OH | Oct 2021 – May 2025

- Supported 300+ students/faculty with hardware & software troubleshooting.
- Documented support workflows and created onboarding guides for new team members.
- Managed inventory systems and classroom device setups, improving efficiency.

EDUCATION

University of Toledo – B.S. in Computer Science Engineering

Toledo, OH – May 2025