Bikash Shaw

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Summary

Full Stack Developer and Computer Application undergraduate with hands-on experience building scalable full-stack web applications and backend systems using TypeScript, Next.js, PostgreSQL, MongoDB, and Docker. Passionate about backend architecture and distributed systems. Seeking full-stack or backend engineering opportunities to build impactful, scalable products alongside a growth-driven team.

Projects

Ship0 - Build Faster with AI | *Express, Next.js, Inngest, PostgreSQL, Tanstack Query* **Github | Live**

- Built an AI-powered platform that generates production-ready Next.js applications from natural language prompts, using background job orchestration for reliable async workflows and long-running AI tasks.
- Designed a robust backend architecture with proper error handling, retries, and timeouts for AI jobs (code generation, DB updates, sandbox execution), reducing user wait times and failure states.
- Implemented credit-based rate limiting with database-backed enforcement (rate-limiter-flexible), ensuring backend-side source of truth and preventing frontend abuse.
- Optimized system performance by reducing API payload sizes (1MB → 150–400KB), improving frontend polling efficiency, and adding CI/CD pipelines for automatic backend deployment to a VPS.

Urbanease - Local Service Provinding App | *Next.js, PostgreSQL, Tanstack Query, Express* **Github | Live**

- Built a multi-role marketplace with Admin, Provider, and Customer flows: admin approval for providers, category and service setup, and review moderation.
- Implemented a booking flow with slot-based availability, before/after image uploads, status tracking (pending → confirmed → in-progress → completed), and rescheduling that checks provider availability.
- Designed a review system with provider flagging, admin hide/restore controls, and automatic account suspension after three violations.
- Introduced caching, pagination, and structured logging across the backend to improve response times, memory use, and API traceability.

Zivelle - E-Commerce App | *Next.js, PostgreSQL, Redis, Docker, Razorpay* **Github | Live**

- Designed and implemented real-time inventory concurrency control using Prisma interactive transactions, ensuring atomic stock updates, rollback safety, and preventing overselling under simultaneous user checkouts.
- Built a scalable catalog and search system using PostgreSQL Full-Text Search (tsvector, tsquery) with GIN indexing, enabling fast, relevance-ranked queries while supporting pagination and SEO-friendly URL-based searches.
- Optimized frontend and backend performance by introducing server-side pagination, Prisma skip/take, SWR-based data fetching, and parallelized queries with Promise.all, significantly reducing payload size and render latency.
- Improved seller dashboard performance by caching computed metrics with Redis, added a dedicated staging-like development environment on a custom subdomain, and streamlined CI/CD for safer production deployments.

Technical Skills

Languages: JavaScript, TypeScript
Frontend: Next.js, TanStack Query
Backend: Express, WebSockets, Inngest
Databases: PostgreSQL, Prisma, Redis
DevOps: Docker, Docker Compose, VPS, Vercel
Cloud: AWS (basics)

Education

Chandigarh University Chandigarh | 2023 - 2026
Bachelor of Computer Applications (Online) *CGPA: 7.0*