Ankit Shukla

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Profile

Backend-Focused Full Stack Developer specializing in **distributed systems**, high-concurrency architectures, and fault-tolerant backend design.

Proven experience building and deploying **production-grade systems** handling **concurrent users, payments, and distributed state** using Node.js, GraphQL, and Redis.

Skills

- **Languages:** JavaScript (ES6+), TypeScript, C++
- **Frontend:** React.js, Next.js (App Router), Tailwind CSS
- **Backend:** Node.js, GraphQL, REST APIs
- **Databases:** MongoDB
- **Caching & Messaging:** Redis
- **DevOps:** Docker, Nginx, GitHub Actions, AWS S3, PM2
- **Core Concepts:** Distributed Systems, Concurrency Control, Idempotency, Rate Limiting, Secure Authentication (JWT, Argon2id), Webhooks

Projects

Zynora — Production-Grade Multi-Vendor E-Commerce Platform
Next.js, GraphQL, MongoDB, Redis, Stripe, Docker, AWS S3

- Engineered and deployed a **scalable full-stack e-commerce platform** on a self-managed Linux VPS with reverse proxy and process management
- Designed **atomic Redis-based stock reservation system** using TTL locks, ensuring **strong consistency** and preventing overselling under high concurrency
- Implemented **distributed locking and sliding window rate limiting** using Redis Lua scripts to handle concurrent requests safely
- Built **idempotent Stripe webhook pipeline** guaranteeing **exactly-once payment processing** in a distributed environment
- Developed **secure authentication system** with JWT rotation, Argon2id hashing, and device-based session binding
- Architected **immutable order snapshot system** to preserve pricing and order integrity across lifecycle events
- Optimized backend performance, reducing API latency by **40%** through Redis caching and query optimization
- Designed and implemented **CI/CD pipeline** using GitHub Actions, Docker, and PM2 enabling **zero-downtime deployments**

Links: Live Demo — GitHub

Achievements

- Built and deployed a **production-grade distributed system** independently
- Improved backend performance by **40%** through caching and system optimization
- Designed systems handling **concurrency, payments, and distributed state management**

Education

Bachelor of Science in Information Technology
Mumbai University — Expected May 2026