

# Parth Bhosle

*Full Stack Developer*

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## PROJECTS

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- Unicloud** — Rust, Axum, Redis, PostgreSQL, Next.js Live | Github
- Built a high-performance cloud transfer platform (v1) in Rust enabling Google Drive-to-Drive streaming transfers without local disk buffering, reducing memory usage by 60%.
  - Designed a Redis-backed distributed worker system with Tokio for background transfers and token refresh jobs, delivering real-time progress updates via WebSockets.
  - Implemented secure multi-account Google OAuth linking with AES-encrypted token storage, quota enforcement, and fault-tolerant retry logic to ensure reliable large-file transfers.
- CacheUpp** — TypeScript, MERN, pgvector Live | Github
- Developed feature-rich social platform with posts, likes, comments, real-time chat, friend system, and forums, implementing Google OAuth 2.0
  - Boosted forum search accuracy by 30% using vector embeddings and pgvector, and reduced frontend state complexity by 20% with Zustand.
  - Enabled role-based access control (RBAC) and admin dashboard for content review and improved login security by 30% using cookie-based bcrypt hashing; added smooth transitions via Framer Motion.
- DocuMind** — TypeScript, Next.js, OCR, TTS Live | Github
- Developed an OCR + TTS web application, converting PDFs/images to audio for Students (exam preparation) and Professionals, reducing reading effort by 70%.
  - Integrated kokoro-tts via WebAssembly to generate natural, non-robotic voices in-browser; designed server-side TTS for 5x faster processing of long documents.
  - Reduced image upload latency by 40% on the OCR + TTS web app by optimizing image compression algorithms which enhanced user experience on limited bandwidth networks.
- Quizzo** — TypeScript, Next.js, framer-motion, Next-Auth Live | Github
- Built a full-stack quiz platform with scalable APIs using Prisma ORM, enabled fully dynamic quiz creation and option management via UUIDs.
  - Handled quiz submissions through transactional logic, auto-scoring mechanisms, and persistent answer storage using Prisma; maintained high result accuracy ( 90%) through schema validation (Zod).
  - Crafted a fully responsive frontend using Next.js with Framer Motion for smooth UI/UX; implemented session handling and secure auth flows that reduced login-related issues by 40%.

## SKILLS

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**Languages:** Rust, JavaScript/TypeScript, C++

**Frameworks & Libraries:** React.js, Node.js, Express.js, Next.js, Axum, Framer Motion, Zustand, Tailwind CSS

**Databases & Tools:** PostgreSQL, Prisma, SeaOrm, MongoDB, Weaviate, pgvector, Docker, Postman, Git

**Concepts & Development Skills:** Transactional Database Operations (Prisma.\$transaction), API Development, RESTful Services, Data Structures & Algorithms (Arrays, Binary Search)

## EDUCATION

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**Vasantdada Patil College of Engineering**  
*Bachelor of Engineering in Information Technology*

Mumbai  
2022-2026