Parth Bhosle

Full Stack Developer

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PROJECTS

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%.

SecondBrain — TypeScript, MERN Stack, Microlink API   Github
- Built a sleek note-taking app inspired by Google Keep with full CRUD via MERN stack with a clean and intuitive UI.
- Integrated smart link previews using api.microlink.io, improving content readability by 40% and increasing average user engagement time by 25%.
- Enforced type-safe architecture across frontend and backend, reducing runtime errors by 35% and improving long-term maintainability by 40%.

SKILLS

Languages: JavaScript, TypeScript, Rust, 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

Vasantdada Patil College of Engineering   Mumbai
Bachelor of Engineering in Information Technology   *2022-2026*