PUSHKAR DEV

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EDUCATION

Delhi Technological University Aug 2023 – Jul 2027
B.Tech, Mechanical Engineering with Specialisation in Automotive Engineering CGPA: 6.98
Minor in Computer Science

EXPERIENCE & PROJECTS

Virtual Library | Chief Technology Officer Jan 2026 – Present
Next.js · React Native · Express · Prisma · PostgreSQL · MongoDB · Redis · WebSockets

- Lead engineering for a live edtech platform serving ~3,000 users across web and mobile, owning architecture, delivery, and infrastructure.
- Architected a decoupled backend splitting API, event, and execution services over Redis queues to keep latency stable under burst load.
- Shipped a cross-platform Focus Mode / App Blocker handling background-state persistence, session heartbeats, and native OS restrictions via WebSocket sync.
- Integrated Razorpay memberships, S3 uploads, and automated email/WhatsApp workflows; own staging deploys and Play Store / App Store releases.

TradeCO | Testnet Crypto Exchange
Next.js · Node.js · Redis Streams · PostgreSQL · Prisma · WebSockets

- Built a production-inspired exchange on the Binance testnet API, prioritising concurrency and system design over CRUD scaffolding.
- Decoupled order intake, execution, and state management into services communicating asynchronously via Redis Streams.
- Streamed live market and order updates over WebSockets; secured placement with JWT and persisted trades in PostgreSQL.

Freelance | Full-Stack Web Developer Aug 2023 – Present

- Delivered production e-commerce, booking, and dashboard applications, owning scope from wireframes to deployment.
- Implemented authentication, role-based access control, and Stripe/Razorpay payment flows with real-time Firestore sync.
- Deployed and maintained apps on Vercel and VPS with Nginx, PM2, and Let's Encrypt SSL.

Open-Source Contributions

- **omegaUp** *(PHP, Vue.js, MySQL)* — Improved the Markdown rendering engine and extended frontend functionality in a large production codebase.
- **Kando** *(TypeScript)* — Added interactive tooltips and refined accessibility across the menu UI.

TECHNICAL SKILLS

Languages	C++, JavaScript, TypeScript, Python, C, SQL
Frontend	React, Next.js, React Native, Expo, Tailwind CSS
Backend	Node.js, Express, REST APIs, WebSockets, Redis Streams
Data & Ops	PostgreSQL, MongoDB, Redis, Prisma, Firebase, Docker, Git, Nginx, Vercel

RESPONSIBILITIES & ACHIEVEMENTS

- **Backend Engineer, DTU Times** *(Aug 2024 – Present)* — Lead backend for DTU's official student publication; modularised a legacy codebase and built REST APIs and editorial content systems.
- **Competitive Programming** — LeetCode Knight (rating 2012) and Codeforces Pupil (max rating 1396); 500+ problems solved across LeetCode, Codeforces, and InterviewBit.
- **Certifications** — HackerRank: Problem Solving, JavaScript, CSS | GSSoC 2024 Open Source.