Kushal Nayak S P

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EDUCATION

- **Dayananda Sagar College of Engineering** — Bengaluru, KA
  B.E. in Information Science and Engineering; CGPA: 8.6 — *2022 – 2026*

SKILLS

Programming Languages: C++, TypeScript, JavaScript, Rust, Python
Frontend Engineering: React (Hooks, Context, Performance Optimization), Tailwind CSS, Framer Motion, HTML5, CSS3
Backend & APIs: Node.js, GraphQL (Apollo Client), REST APIs, OAuth 2.0 (PKCE), WebSockets
Systems & Tooling: Tauri 2.0, WinAPI, IPC, Git, GitHub, Vite, CI/CD fundamentals
Databases: PostgreSQL, IndexedDB
Practices: Agile/Scrum, API-first design, Code Reviews, Technical Documentation

EXPERIENCE

- **Web Developer Intern** – *JABSZ Studios*   Jan 2025 – Present

  - Developed and shipped production-grade mobile features using **React Native**, focusing on performance optimization, responsiveness, and maintainable component architecture.

  - Designed and implemented a scalable **design system in Figma**, standardizing components and interaction patterns, resulting in significantly faster design-to-development handoff.

  - Collaborated closely with designers, developers, and stakeholders to translate complex workflows into intuitive, high-fidelity user interfaces.

  - Actively participated in Agile ceremonies including sprint planning, reviews, and iterative delivery, following modern SDLC best practices.

PROJECTS

- **PLAY-ON!** – *One Stop AniManga Destination for Desktop — React, Rust, GraphQL, Tauri*

  - Built a cross-platform desktop app, acting as the hub for entertainment that automatically tracks what users watch locally (like VLC/MPV) and syncs progress to **AniList**, removing the need for manual updates.

  - Designed a smooth in-app anime streaming and manga reading experience with real-time sync across the app and Discord Rich Presence, delivering a unified entertainment dashboard. Built on ReactJS for beautiful UI.

  - Integrated **GraphQL (Apollo Client)** for efficient data fetching, caching, and real-time UI updates.

  - Focused on performance and reliability, keeping the app lightweight (under 30MB) while maintaining responsive UI and background syncing. Leverages the OS' WebView for running the app.

- **VIBE-ON!** – *Cross-Platform High-Fidelity Music Streaming — Rust, Kotlin, React, WebSockets, BitTorrent*

  - Engineered a high-performance desktop music player using **Rust (Tauri)** and **React**, implementing local library management and BitTorrent-based music acquisition via the **librqbit** engine to download Hi-Fi Music.

  - Implemented a robust **Real-Time State Synchronization** layer using **WebSockets**, enabling seamless cross-device playback control and PC-to-Mobile streaming with ultra-low latency.

  - Optimized network efficiency by building a custom **P2P Streaming Layer** that allows users to discover, download, and stream lossless audio directly between verified local network nodes.

LEADERSHIP & ACTIVITIES

- **Design Head** – **Genesis Student Forum** (2025 – 2026): Led and mentored a 20-member design team, overseeing branding, visual identity, and execution for multiple large-scale college events; active core member since 2023.