

# Kousthubha Yadiyala

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## Professional Summary

Software Engineer focused on distributed systems, AI developer tooling, and edge-compatible applications. Shipped production-grade open-source CLI tooling, AI SaaS platforms, and a full-stack school ERP — with hands-on deployment experience on Cloudflare Workers and serverless edge environments.

## Skills & Technologies

**Languages:** TypeScript, JavaScript, Python, SQL, Java  
**Frontend:** React, Next.js, Tailwind CSS, App/Pages Router  
**Backend:** Node.js, FastAPI, Express, REST APIs, Async Processing, Worker Queues, LLM Integration, Streaming APIs  
**Databases & Caching:** PostgreSQL, MongoDB, Redis, Supabase, Query Optimization  
**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Git, Docker, GitHub Actions, CI/CD  
**Engineering:** OAuth 2.0, Agentic Systems, Claude code, Codex

## Technical Projects

- persistent v0.2.0** | [TypeScript](#), [Node.js](#) | [persistent.technology](#) | [GitHub](#) 2026
- Built and published an open-source AI developer CLI solving agent statelessness — enables persistent context injection for LLM agents (Claude, Cursor, Windsurf) via structured memory (CLAUDE.md, rules, indexed knowledge).
  - Engineered a 4-step developer workflow: `init` → `spec` → `sync` → `archive`, supporting spec-driven development, context-aware reasoning, and multi-agent coordination.
  - Shipped an extensible Plugin API (`createPersistentPlugin`) enabling third-party tools and editors to register native AI instances — designed for ecosystem-wide adoption across developer platforms.
- Xcore-AI - AI SaaS Platform** | [React 18](#), [Vite](#), [FastAPI](#), [Supabase](#), [Redis](#), [Auth0](#) | [Live](#) 2025
- Architected a full-stack AI SaaS platform built for internet-scale concurrency — multi-model LLM support (OpenRouter), real-time streaming, and production-grade backend using FastAPI, PostgreSQL, and Redis.
  - Built a multi-layer caching system with Redis achieving 50-70% faster response times; implemented prompt orchestration and streaming strategies under concurrent load.
  - Integrated Razorpay subscriptions with webhook validation, hybrid rate limiting, and Dockerized backend deployment.

## Freelance Experience

- Freelance Software Engineer** | [Sevabharathi Vidyakendra](#), [Thirthahalli](#) [Live Public](#) 2026 - Present
- Architected and shipped a full-stack School ERP (monorepo) for a 550+ student institution using Next.js 15, FastAPI, and PostgreSQL — covering admissions, fee management, and staff operations.
  - Implemented Better Auth with custom middleware for rate limiting and subdomain-based routing; integrated PostHog analytics for real-time operational insights across the dashboard.
  - Set up Alembic-based PostgreSQL migration pipeline for schema versioning and zero-downtime deployments; added i18n support across the public site and admin dashboard.

## Education

- Mahatma Gandhi Memorial College, Mangalore University** | Bachelor of Computer Applications (BCA), CGPA: 9.14/10 2022 - 2025
- Relevant Coursework: Data Structures & Algorithms, DBMS, Distributed Systems, Computer Networks, Operating Systems

## Certifications

- AWS Certified Cloud Practitioner** | Amazon Web Services 2025  
**Cyber Security Job Simulation** | Deloitte Australia (Forage) 2025  
**Prompt Engineering in Vertex AI** | Google Cloud Platform 2025  
**Claude AI in Action (Official Course)** | Anthropic 2026

## Achievements & Contributions

- NPM Package Author** | Published and maintaining [@kousthubha/persistent](#), [/stack-end](#) — open-source, MIT licensed  
**Open Source Contributor** | Active public repositories and developer tooling — [GitHub](#)  
**Competition** | Winners, Teckno Information Technology Competition