

YASHRAJ YADAV

Full-Stack Engineer | AI Systems | Backend & Product Engineering

Alwar, Rajasthan, India · mintuser65@gmail.com yrj.fysk.dev github.com/ameghcoder linkedin.com/in/yrjdeveloper

PROFESSIONAL SUMMARY

Full-Stack Engineer with 3+ years of experience building and shipping production software across professional roles and independent products. Skilled in TypeScript, React, Next.js, Node.js, PostgreSQL, REST APIs, and AI/LLM integrations, with hands-on experience in conversational AI, RAG, Automation, and scalable backend architecture.

Independently designed, developed, and operated multiple products, including an AI customer support platform and a creator marketplace handling 2.5M+ monthly API requests. Built STL, an open-source developer package with 14k+ total downloads. Comfortable owning the complete product lifecycle, from UI/UX design and system architecture to deployment, performance optimization, and production maintenance.

WORK EXPERIENCE

Independent Full-Stack Engineer | Self-Employed

Remote | Jan 2025 - Present

- Built Solandra, an AI-powered customer support platform using hybrid retrieval, PostgreSQL, Qdrant, and scalable backend APIs.
- Developed and operated PixEarn, serving 2.2k+ registered creators and handling 2.5M+ monthly API requests.
- I built 4-5 open source projects and STL has 10k+ downloads over NPM and 3 fully completed products from scratch *media sharing platform (grew up to 6M impressions), AI orchestration layer for content pipeline, AI powered support operating system.*

Senior Full-Stack Developer | Vidharat Marketing

Remote | Mar 2024 - Dec 2024

- Rebuilt the backend data layer for a 10k+ product catalog, maintaining search response times under 200ms under concurrent load.
- Developed custom search and filtering functionality using optimized PostgreSQL queries and indexing strategies.
- Reduced page load times from 8+ seconds to under 2.5 seconds by identifying and resolving application-level performance bottlenecks, improving Lighthouse scores from 68 to 95+.

Full-Stack Developer · Ashiv Diamonds (Remote)

Remote | Oct 2022 - Apr 2023

- Developed and optimized full-stack application features, reducing API response and page load times from 8 seconds to 2.4 seconds.
- Built a headless CMS backend enabling non-technical staff to manage product catalogs independently.
- Improved backend performance and reliability through database query optimization, caching, and request lifecycle analysis.

TECHNICAL SKILLS

- Languages:** TypeScript, JavaScript (ES6+), Python, SQL
- Frontend:** React, Next.js (App Router), Tailwind CSS, HTML5/CSS3, shadcn/ui, Responsive UI/UX
- Backend:** Node.js, Express, REST APIs, PostgreSQL, Redis, pg-boss, background jobs, Multi tenant Architecture, DB design
- AI & Automation:** RAG, LLM Integration, AI Chatbots, Vector Search, Retrieval, Prompt Engineering, Agentic Workflows
- Auth & Integrations:** Google OAuth 2.0, Role-Based Access Control, Webhooks, Payment Integrations, Third-Party APIs
- Infrastructure & Docker:** Docker, Linux, Railway, Vercel, Supabase, AWS S3, Git, GitHub Actions, CI/CD
- Engineering:** System Design, Performance Optimization, Technical Documentation, Debugging

PROJECTS

AgentBar | Open-Source AI Developer Tool (Open Source) · github.com/ameghcoder/agent-bar

TypeScript | Node.js | GNOME Shell | GJS | Linux | Claude Code Hooks

- Designed and built a Linux desktop Extension that monitors multiple Claude Code sessions directly from the GNOME top bar, providing real-time visibility into agent activity.
- Developed an event-driven architecture using Claude Code hooks, local JSON state management, and a GNOME Shell extension to track session states, permission requests, failures, and completed turns.
- Implemented desktop notifications, multi-session tracking, terminal window navigation, and diagnostic commands.

- Packaged the application for Ubuntu as a .deb installer, with local-first operation requiring no cloud services, accounts, or telemetry.

Solandra | AI Customer Support & Knowledge Intelligence · solandra.io

Next.js | TypeScript | Node.js | PostgreSQL | Qdrant | OpenAI | REST APIs | Supabase

- Founded and independently developed an AI-powered customer support platform that answers visitor questions using business documentation and website content, with source-backed responses.
- Designed a hybrid retrieval architecture combining Qdrant vector search, PostgreSQL full-text search, and LLM-based answer generation to improve knowledge retrieval.
- Built an embeddable customer support chatbot, including conversational context, configurable widget settings, human escalation, and secure API integrations.
- Developed an automated knowledge-gap detection system that identifies unanswered customer questions and helps businesses improve their documentation.
- Implemented website crawling, content ingestion, multi-tenant data management, and backend services, taking the product from architecture to a working private beta.

CreatorJot | AI Content Automation Platform (Open-Source / Self-Hostable)

Next.js | TypeScript | Node.js | Express | PostgreSQL | pg-boss | Railway | GPT | Claude | Gemini

- Designed and developed an AI-powered content automation platform that transforms YouTube video transcripts into structured content for multiple publishing channels.
- Built a multi-LLM processing pipeline orchestrating GPT, Claude, and Gemini through background job queues across a 5-node Railway deployment.
- Reduced per-call token usage by approximately 85% through schema-based context compression and reusable structured intermediate data.
- Implemented job processing, schema versioning, and per-call token and cost tracking to improve reliability and control LLM expenses.

PixEarn | Creator Marketplace · pixearn.com

Operated until Aug 2026 | Next.js | TypeScript | Node.js | PostgreSQL | Supabase | AWS S3 | Razorpay | REST APIs

- Independently designed, built, and operated a creator marketplace, growing it to 2,200+ registered creators, 6,000+ artworks, and 15k+ monthly active users.
- Designed and maintained production infrastructure handling 2.5M+ API requests and 1.2M+ database queries monthly, with a 97%+ request success rate and sub-150ms latency.
- Optimized application performance, database indexing, API processing, and storage to operate the platform on approximately \$38/month in infrastructure costs.
- Built creator payment workflows, third-party integrations, media storage and optimization pipelines, and fraud detection using visitor fingerprints and IP-based signals.

OPEN SOURCE

- **AgentBar:** Developed and published an MIT-licensed Linux desktop tool for monitoring Claude Code agent sessions.
- **Fysk:** Built a React component library compatible with the shadcn CLI. <https://fysk.dev>
- **STL (Structured Table Language):** Developed a table DSL with a parser, React renderer, CLI, and Sanity CMS integration. <https://stl-table.vercel.app>
- **Regify:** Created a CLI using ts-morph AST manipulation to automate component registry generation, reaching 100+ npm downloads. <https://regify-cli.vercel.app>
- **Independent Product Engineering:** Built and operated multiple full-stack products, including AI-powered applications, developer tools, and scalable web platforms.

EDUCATION

- **Senior Secondary (Physics & Mathematics):** Aditya Institute, Alwar · 85% · 2019
- **Secondary (Mathematics & Science):** Mishra Prince School, Alwar · 90% · 2017