

# Punyakrit Singh Makhni

Full Stack Engineer

Bengaluru, India | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Full stack engineer with 3+ years shipping production web platforms end to end, from React/Next.js and TypeScript on the front to Node.js and FastAPI on the back, on PostgreSQL, Redis, Docker and AWS. Comfortable owning a feature from schema to deploy on small teams.

## EXPERIENCE

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| <b>Software Engineer</b><br>Gradly.us                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mar 2026 — Jul 2026<br><i>Remote (United States)</i> |
| Built the signup and account experience that 15,000+ international students use to get insured in the US. Owned it from the React/Next.js UI through TypeScript Node.js APIs, handling personal and policy data in a regulated domain. Also shipped internal tools and admin workflows the team uses daily, across PostgreSQL, FastAPI, GraphQL and Redis, deployed with Docker on AWS.                                                                                                                                                                                 |                                                      |
| <b>Software Engineer (Contract)</b><br>TheFocus.AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dec 2025 — Mar 2026<br><i>United States</i>          |
| Built RAG-powered semantic search across member profiles and work for an invite-only professional network, covering the retrieval layer through the search UI. Cut load times by roughly 80% by overhauling the application's infrastructure, authentication, and rendering pipeline.                                                                                                                                                                                                                                                                                   |                                                      |
| <b>Software Developer Engineer Intern</b><br>Muze AI CMO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Jun 2024 — Oct 2025<br><i>Remote (United States)</i> |
| Built Muze CMO from scratch, a full-stack AI marketing platform that reads live Meta and Google Ads campaign and competitor data, predicts whether a creative will perform before spend, and generates the next ad. Designed the data and API layer on Supabase/PostgreSQL with Redis for real-time retrieval and caching, plus a RAG layer grounded in campaign, competitor, and brand data. Cut API latency by 40%, drove a 25% increase in user engagement, and overhauled CI/CD and Docker deploys on AWS (EC2, CloudFront, S3), taking deploys from days to hours. |                                                      |
| <b>Founder &amp; Software Engineer</b><br>Independent Projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Feb 2023 — Present<br><i>Remote</i>                  |
| Built InfiniteUGC end to end, an AI video pipeline that turns scripts into TikTok-native ads for 50+ brands across 32+ languages. Wrote the job orchestration and AWS render pipeline behind the long-running compute. Shipped Craft Trading, a React Native (Expo) paper-trading app for the Indian stock market, live on the App Store, with real-time price sync over Redis pub/sub and WebSockets.                                                                                                                                                                  |                                                      |

## EDUCATION

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| <b>Lovely Professional University</b><br><i>Bachelor of Technology - BTech in Computer Science</i>                                                                                                                                                    |
| BTech graduate with a strong foundation in cutting-edge technology, specializing in problem-solving through advanced algorithms, data-driven models, and intelligent systems. Passionate about building smart solutions that make a real-world impact |

## PROJECTS

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| <b>Pulse</b><br>Pulse – Website uptime & monitoring platform (Next.js, TypeScript, PostgreSQL, AWS EC2)                                     |
| - Built full-stack dashboard with real-time alerts + historical trends.                                                                     |
| - Automated monitoring to reduce downtime response.                                                                                         |
| <b>Arcane</b><br>Arcane – Collaborative workspace (Supabase, PostgreSQL, Socket.io)                                                         |
| - Real-time editing with multi-user sync.                                                                                                   |
| - Architected backend for scalable data storage.                                                                                            |
| <b>SolBot</b><br>A modern, responsive landing page for SolBot, designed to highlight its features with clean layouts and smooth animations. |
| - Built using Next.js, Tailwind CSS, shadcn/ui, and Framer Motion.                                                                          |
| - Delivered reusable UI components for scalability and speed of iteration.                                                                  |
| <b>SolWeb</b><br>Blockchain analytics for Solana (web3.js, Next.js)                                                                         |
| - On-chain visualizations + wallet tracking.                                                                                                |
| - interactive dashboards for real-time insights.                                                                                            |
| <b>Notexa</b>                                                                                                                               |

A modern note-taking SaaS app with authentication, subscriptions, and theme support.

- Implemented auth (Kinde), payments (Stripe), and Supabase backend for a full SaaS workflow.
- Designed UI with Next.js + TypeScript for seamless note creation, organization, and premium feature access.

### **Full-stack RAG over large codebases, CodeLens**

A Next.js and TypeScript client over a type-safe tRPC API. Repositories are embedded into pgvector with their structure preserved, so queries return the right code rather than code that only looks similar.

### **Turns a silent screen recording into a narrated product demo, AI Demo Video Builder**

A multi-model pipeline with four models across eight phases behind a FastAPI service. AI makes the editorial decisions, and deterministic code executes them through a validated Pydantic EditPlan that passes 32 checks before a frame renders.

## **CERTIFICATIONS**

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**0-100 Full Stack Web Development Course, 100xDevs**

## **SKILLS**

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NextJs · Node.js · Amazon Web Services (AWS) · TypeScript · PostgreSQL · Supabase · React.js · Continuous Integration and Continuous Delivery (CI/CD) · Amazon EC2 · Docker · Express.js · Socket.io · Python (Programming Language) · FastAPI · web3.js · Next.js · Prisma ORM · Framer · Tailwind CSS · MongoDB · Cascading Style Sheets (CSS) · HTML5 · JavaScript · GitHub · C++ · SQL · React Native · Expo · Redux · Framer Motion · RESTful APIs · GraphQL · tRPC · WebSockets · JWT Authentication · Redis · pgvector · S3 · Lambda · CloudFront · Kubernetes · Nginx · Vercel · Git · Linux · LLM Integration · Agent Orchestration · RAG · Vector Embeddings · Semantic Search · Evals · OpenAI · Gemini · Claude