

# POOJAN GOYANI

## Full-Stack Software Engineer & Developer

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### PROFESSIONAL EXPERIENCE

#### Junior Software Engineer Intern | [Number7AI](#) (Jun 2025 – Present)

- Designed and delivered **end-to-end software architecture across frontend, backend, and API layers**, ensuring scalability, maintainability, and rapid iteration.
- Built a subscription-based billing (using Razorpay)** and usage-tracking system **from scratch**, enabling recurring revenue streams with metered access control.
- Integrated external accounting platforms (QuickBooks and Zoho) via RESTful APIs and webhooks**, automating financial data sync across systems.
- Resolved complex production issues and improved system reliability by implementing cron-based job scheduling, server-side caching, and real-time WebSocket communication.
- Participated in code reviews of both human-written and AI-generated code, ensuring quality, security, and adherence to team standards.
- Collaborated across multi-disciplinary teams throughout the full SDLC** — from requirements gathering through deployment and monitoring.

#### Founder & Full-Stack Engineer | [InvGenie](#) (May 2024 – Present)

- Architected and deployed a **multi-tenant SaaS inventory management platform** (17 Prisma models) handling real-time stock tracking, order lifecycle management, vendor/customer operations, and multi-warehouse support for SMEs.
- Engineered the entire backend using **Next.js Server Actions as the sole API layer**, replacing a traditional REST API with a typed `ActionResult<T>` contract, composable auth middleware, and structured error codes.
- Built a **durable background job pipeline with Inngest step functions** for **WhatsApp order notifications** (Meta Cloud API v21.0) — each step independently retryable with automatic failure recovery.
- Implemented a **dynamic EAV (Entity-Attribute-Value) attribute system** allowing each organization to define **custom product metadata dimensions without schema changes**.
- Designed an inventory reservation model that computes available stock (physical – reserved + incoming) at query time from pending order line items, eliminating denormalization drift.
- Shipped as a PWA with Firebase Cloud Messaging push notifications** (multi-device token management), offline support via Serwist service workers, and responsive UI for mobile devices.
- Strengthened **observability and reliability** with Sentry error monitoring, CI/CD on Vercel, API rate limiting, and Zod-based input validation on every server action.

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### CORE SKILLS

- Frontend:** React 19, Next.js (v13–16, App Router), Zustand, TanStack Query/Table, Redux, Tailwind CSS, Radix UI, CodeMirror 6
- Backend:** Node.js, Express.js, Python, Prisma ORM, Next.js Server Actions, PHP, Inngest (durable background jobs)
- Databases:** MongoDB, PostgreSQL, MySQL, Cloudinary, Vector Embeddings, Convex DB
- DevOps & Tools:** AWS, Docker, Kubernetes, Vercel, GitHub Workflows, Sentry.io
- Languages & CS:** Data Structures & Algorithms, C, C++, Java, Python (Automation)
- Other Expertise:** RESTful & WebSocket APIs, System Design, Webhooks, Automation, SaaS Development, Multi-Tenant SaaS, Event-Driven Pipelines
- AI-Assisted Development:** Cursor, Google Antigravity, Prompt Engineering, Agentic Workflows, LLM API Integration (Gemini, OpenAI), Tool-Use Pipelines, RAG, Vector Search

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### EDUCATION

PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur

Nov 2022 - Aug 2026

#### B.Tech – Computer Science & Engineering (CSE)

Elected Member of Student Senate – Represented 2022 batch, contributing to academic and student welfare governance.

## PROJECTS

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### [Patient EMR Portal \(used by a Psychotherapy Hospital in USA\)](#)

*Tech Stack: React 18 + TypeScript, Node.js/Express, Sequelize/MySQL, JWT, Stripe, Zoom SDK*

- Delivered secure, HIPAA-compliant SPA with JWT-based authentication and route guards.
- Integrated Stripe for patient billing, including insurance math (copay, coinsurance, deductibles).
- Launched Zoom SDK integration for telehealth appointments, increasing platform usability.
- Built RESTful APIs with optimized connection pooling and Sequelize ORM for reliability.

### [Forge — AI-Powered Browser IDE](#)

*Tech Stack: Next.js 16, TypeScript, Convex, Inngest, Google Gemini 2.5 Flash, WebContainers, Clerk, CodeMirror6*

- Built a full-stack, in-browser AI coding IDE where users describe what they want and a Gemini 2.5 Flash agent autonomously reads, writes, creates, and deletes project files using a structured tool-use pipeline
- Architected an agentic AI pipeline using Inngest Agent Kit — agent runs up to 20 tool-call iterations in a background job, keeping the UI non-blocking; supports cancellation mid-execution via Inngest event cancellation
- Integrated WebContainers API to boot a real Node.js runtime inside the browser.
- Implemented GitHub import & export using Octokit — clones entire repositories into Convex (tree-walk with binary file support via Convex Storage), and pushes projects to new GitHub repos with a single click
- Designed a real-time reactive data layer with Convex — schema covers projects, hierarchical files (with parentId), conversations, and messages; file updates from the AI sync live to the editor and WebContainer via Convex subscriptions
- Built a CodeMirror 6 code editor with multi-language support (JS, TS, Python, HTML, CSS, JSON, Markdown), minimap, indentation markers, and 1.5s debounced auto-save

### [InstaPoster – Instagram Automation Suite](#)

*Tech Stack: Python, Selenium, FastAPI, MongoDB, Next.js, Prisma ORM, React, Tailwind CSS*

- Engineered an end-to-end automation pipeline (scrape → video transform → post) managing multiple accounts simultaneously with per-account session persistence, credential isolation, and configurable posting strategies.
- Built an automated video processing pipeline with MoviePy and Pillow — dynamically applying captions, margins, watermarks, and re-encoding to transform scraped media before posting.
- Implemented session persistence and device fingerprinting (JSON-serialized auth tokens, device UUIDs, cookies) to maintain consistent identity across runs and avoid platform security flags.
- Configured GitHub Actions CI/CD workflows with cron-based scheduling and encrypted secrets management for fully unattended pipeline execution.

### [PDF-Sidekick](#)

*Tech Stack: Python, FastAPI, PostgreSQL (NeonDB), Sentence Transformers, Google Flan-T5-Large, Next.js 15, TypeScript, Cloudinary, WebSockets*

- Built an AI-powered web app enabling users to chat with uploaded PDFs, leveraging embeddings + LLMs.
- Designed and built a full-stack Retrieval-Augmented Generation (RAG) pipeline: PDF upload → text extraction (PyPDF2 + OCR fallback) → recursive chunking → embedding generation → vector storage → semantic search → LLM-powered answer synthesis.
- Implemented chunking, vector search, and context-aware querying for accurate responses.
- Built real-time interactive Q&A over WebSockets with structured JSON messaging, processing status tracking, and graceful fallback when no relevant context is found.
- Designed an intuitive frontend with Next.js/React and deployed on Vercel for production scalability.

[More projects on GitHub — ranging from SaaS platforms and AI agents to automation tools and coding experiments.](#)

## SUMMARY

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Software Engineer with **hands-on experience designing and shipping scalable, enterprise-grade applications** using AI-assisted engineering practices. Proficient in Python, TypeScript, and JavaScript with deep fluency in AI-augmented development — architecting 90+ projects over the past 2 years. **Experienced in agentic AI workflows, prompt engineering, LLM integration, and building secure multi-tenant SaaS platforms end-to-end.** Strong foundation in SDLC, CI/CD, and system design, with a bias toward action and a **track record of delivering production software to real users and paying clients.**