

Punya Jain

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EDUCATION

JSS Academy of Technical Education

Noida, Uttar Pradesh

Bachelor of Technology in Computer Science Engineering

2023 – 2027

- Relevant Coursework: Data Structures and Algorithms (DSA), Operating Systems (OS), Database Management Systems (DBMS), Computer Networks (CN), System Design

EXPERIENCE

Software Engineer | Starportal

June 2025 – July 2025

Remote | Certificate

- **Owned front-end development** using **React** and **TypeScript**, improving application performance and responsiveness
- **Built reusable UI components** and optimized rendering and state management for **AWS**-hosted services
- **Integrated and optimized backend APIs** using **Node.js** and **PostgreSQL**, improving query efficiency and reliability
- **Collaborated on confidential full-stack projects**, contributing to end-to-end optimization across frontend and backend systems

PROJECTS

ApplyFlow (Ecosystem) | GitHub | Python, Flask, PostgreSQL, Docker, n8n, Automation

- Built a **distributed job aggregation system** scraping **8+ platforms** using **Flask REST APIs**, and designed **automation workflows** with n8n and Telegram API for personalized job delivery, reducing manual effort by **80%**
- Implemented **LLM-powered resume parsing, semantic skill extraction, and AI-driven job matching engine**
- Developed scalable backend services with **PostgreSQL**, containerized using **Docker** and optimized with caching for faster query performance

FinPilot (Backend API) | GitHub | Live | Node.js, TypeScript, Express, PostgreSQL, Gemini, Hugging Face

- Built a **scalable backend API** using **Node.js, Express, and TypeScript** with modular **RESTful architecture** for portfolio analysis and financial data processing
- Integrated **Gemini + FinBERT (Hugging Face)** to perform **news sentiment analysis** and generate **buy/hold/sell recommendations** for assets
- Developed **AI-driven advisory logic** combining **7-day price trends, news sentiment, and entry price**, enhanced with **real-time web search** for contextual insights

Agentic RAG Document Intelligence System | GitHub | Python, LangChain, OpenAI, ChromaDB, Vector Search

- Built a backend Retrieval-Augmented Generation pipeline using **Python, LangChain, and OpenAI** with **ChromaDB** vector search for context-aware document Q&A
- Designed scalable document ingestion workflows for **PDF/Text parsing, chunking, embedding generation, and vector indexing**
- Implemented low-latency query pipelines with **semantic retrieval, caching, and chat-history-aware reasoning** for multi-turn question answering

DSA Canvas – DSA Progress Tracker | GitHub | Live | React, JavaScript, OpenRouter API, LZ-String

- Developed a **DSA problem tracker** with Notion-inspired UI, real-time stats dashboard, and **multi-dimensional filtering** by difficulty, company tags, status, and custom lists
- Integrated **AI hint generation** via **OpenRouter API** for inline markdown hints and pseudo-code, with **lz-string compressed** localStorage persistence requiring zero backend

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, C++, C, HTML5, CSS3, SQL

Frontend: React.js, Next.js, Tailwind CSS, Framer Motion, Responsive Design, UI/UX, SPA

Backend: Node.js, Express.js, RESTful APIs, API Integration, Authentication, Microservices

Databases: MongoDB, PostgreSQL, MySQL, Prisma ORM, Mongoose ODM, Database Design

AI/ML & GenAI: OpenAI API, Gemini API, LangChain, LLM, AI Agents, RAG, Prompt Engineering

Tools & Concepts: Git, GitHub, Docker, Postman, Vercel, CI/CD, Agile/Scrum, OOP, DSA, System Design, SDLC

ACHIEVEMENTS & CERTIFICATIONS

Product Engineering: Designed and deployed multiple production-grade systems

Certifications: **Hugging Face Agents Course**, Generative AI Fundamentals

Technical Excellence: Built end-to-end platforms combining distributed systems and AI pipelines