

Punya Jain

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Backend focused Software Engineer building scalable APIs, distributed systems, and AI powered applications using Node.js, TypeScript, Python, PostgreSQL, Docker, and AWS. Experienced in developing production grade backend services, automation workflows, and retrieval augmented AI systems.

EXPERIENCE

Software Engineer | Starportal

June 2025 – July 2025

Remote | [Certificate](#)

- **Led front-end development** using **React** and **TypeScript**, improving application performance and reducing component re-renders through optimized state management
- **Built a library of reusable UI components** consumed across **3+ product modules**, accelerating feature delivery for AWS-hosted services
- **Integrated and tuned backend APIs** with **Node.js** and **PostgreSQL**, reducing average query execution time through indexing and query restructuring
- **Contributed to end-to-end optimization** on confidential full-stack projects, spanning data layer changes through to responsive frontend rendering

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, SQL

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, Authentication, Microservices

Databases: PostgreSQL, MongoDB, MySQL

Cloud & Tools: AWS, Docker, Git, GitHub, CI/CD

AI/GenAI: OpenAI API, Gemini API, LangChain, RAG, Semantic Search

PROJECTS

ApplyFlow (Ecosystem) | [GitHub](#) | *Python, Flask, PostgreSQL, Docker, n8n, Automation*

- Built a **distributed job aggregation platform** that scraped **8+ job boards** through Flask REST APIs and automated job delivery using **n8n** and Telegram workflows, reducing manual sourcing effort by **80%**
- Developed a **resume parsing and skill matching engine** that extracts structured candidate information from unstructured resumes and matches it against aggregated job listings
- Designed scalable backend services using **PostgreSQL** and **Docker**, implementing query layer caching to reduce repeated search latency by **40%**

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

- Architected a **production-grade REST API** with **15+ endpoints** delivering portfolio analysis workflows with **sub-second response times**
- Integrated **FinBERT (Hugging Face)** to perform financial sentiment analysis and combined sentiment scores with market indicators to generate buy/hold/sell recommendations
- Embedded **real-time web search** into the advisory engine, enabling contextual market insights and improving recommendation quality for live asset queries

Document Intelligence System | [GitHub](#) | *Python, LangChain, OpenAI, ChromaDB, Vector Search*

- Built an end-to-end **Retrieval Pipeline** using **Python, LangChain, and ChromaDB**, processing PDF and text documents into **vectorized knowledge bases** supporting semantic search across thousands of chunks
- Designed modular ingestion workflows handling **parsing, chunking, embedding generation, and vector indexing** for documents up to hundreds of pages
- Implemented **low-latency query pipelines** with semantic retrieval, response caching, and **conversation-history-aware context injection** for accurate multi-turn question answering

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

ACHIEVEMENTS & CERTIFICATIONS

Product Engineering: Designed and deployed multiple production-grade systems handling real-world data pipelines and API workloads

Certifications: [Hugging Face Agents Course](#), Generative AI Fundamentals

Technical Excellence: Built end-to-end platforms combining distributed systems, RESTful service design, and NLP pipelines