

VISHNU MURTI PANDEY

Gurgaon, Haryana

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Summary

Software Engineer with **4+ years** of experience building scalable web and AI-powered applications using **React.js**, **Next.js**, **TypeScript**, **Python**, and **FastAPI**. Experienced in **LLMs**, **RAG**, **conversational AI**, and **REST API development**, with a strong interest in **Generative AI** and **Agentic AI**.

EDUCATION

Babu Banarasi Das Institute of Technology and Management

2018 – 2022

B.Tech - Computer Science and Engineering - CGPA - 8.3

Lucknow, Uttar Pradesh

EXPERIENCE

Hughes Systique Corporation 

Sept, 2025 – Present

Senior Software Engineer

Gurgaon, Haryana

- Developed **DocuMind**, a production-oriented **multimodal RAG platform** using **React/Next.js**, **TypeScript**, **FastAPI**, **PostgreSQL**, **Qdrant**, **MinIO**, and **OpenAI**, enabling users to upload research documents and interact with them through contextual AI-powered conversations.
- Engineered an end-to-end **asynchronous RAG pipeline** covering PDF parsing, semantic chunking, image/table enrichment, embeddings, hybrid vector retrieval, reranking, contextual prompt construction, and **SSE-based streaming responses** with citations, figures, and tables.
- Architected reusable, scalable frontend modules using **React.js**, **TypeScript**, **Context API**, and **Tailwind CSS**; optimized rendering performance, integrated REST APIs, and built extensible plugin-based workflows following modern software engineering best practices.

MagicEdtech 

June, 2022 – Aug 2025

Software Engineer

Noida, Uttar Pradesh

- Led development of the **Deal Pricing Project**, a web-based platform serving both clients and vendors, improving pricing workflows and operational transparency.
- Developed a clean User Interface with features like a Dashboard, User profile, Form Section, and Data grid also used libraries to show charts and bar graphs. Enhanced the website efficiency and user experience by **25%**.
- Programmed the design and integration of a **Google authentication** system, which streamlined user logins and improved overall user retention, increasing return visits by over **20%** within the first quarter.

PROJECTS

Chat App  | [React](#), [ExpressJS](#), [Socket.io](#), [MongoDB](#), [ChakraUI](#)

[Live link](#)

- Chit-Chat is a Full Stack Chatting App featuring real-time communication via **Socket.io**, encrypted user data storage in **MongoDB**, and a **Node.js/Express** backend with JWT-based authentication.
- Users can engage in one-on-one or group chats. Users can add, update, and remove multiple participants to create a group chat.

DocuMind  | [Next.js](#), [FastAPI](#), [OpenAI](#), [Qdrant](#), [PostgreSQL](#), [MinIO](#), [Docker](#)

[Live link](#)

- Built a **multimodal RAG platform** with async ingestion, semantic chunking, image/table enrichment, **Qdrant retrieval and reranking**, generating grounded responses with citations, figures, and tables.
- Implemented **PostgreSQL conversation memory**, document-aware chat and SSE streaming; integrated **RAGAS** and **DeepEval** to evaluate retrieval quality, faithfulness, contextual precision/recall, and answer relevancy.

Sketch Board App  | [HTML](#), [CSS](#), [Javascript](#), [Socket.io](#), [NodeJS](#)

[Live link](#)

- The Sketch Board web application is a digital whiteboard platform built with **Socket.io**.
- It provides a **virtual canvas** with various tools where users can draw and erase, **undo and redo**, add sticky notes, **download the canvas**, and **upload a canvas file**.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, SQL, Playwright

Technologies/Frameworks: HTML, CSS, ReactJS, NextJS, Redux, NodeJS, ExpressJS, FastAPI,

PostgreSQL, Socket.io, TailwindCSS, LLMs, RAG, RAG Evaluation, Docker, Git, Jest and Enzymes, GraphQL

Coursework/Skills: DSA, OOPS Concept, System Design, Operating Systems, Computer Networks, DBMS