

Vanshaj Pahwa

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Summary

Full-Stack and AI Engineer with **4+ years** of experience building scalable **web** and **AI-driven systems**. Architected production platforms using **React, TypeScript, and FastAPI**, including a multi-agent natural-language-to-SQL system that cut response time **3x** (12s to 4s) at **95%+** accuracy. Strong at designing deterministic, reliable systems that translate complex problems into user-facing solutions.

Skills

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, HTML, CSS

Frontend: React.js, Next.js, Redux, Tailwind CSS, Radix UI, shadcn/ui, GraphQL, Recharts, Plotly.js, PWA

Backend: FastAPI, Node.js, Spring Boot, REST APIs, Server-Sent Events, Strapi, PostgreSQL, MySQL, Firestore

AI / LLM: Generative AI, Google ADK, RAG, Multi-Agent Systems, LLM Routing, Prompt Engineering

Experience

Senior Software Engineer | Alterest

Dec 2025 – Present

Bangalore | Remote

- Built a multi-agent system (8 agents) on Google ADK with deterministic orchestration, intent classification, and sub-agent routing, cutting average response time from **12s to 4s**
- Delivered a natural-language-to-SQL pipeline with RAG-powered Vega-Lite generation, a self-critique Reflection Agent, and parallelized metadata fetching, reaching **95%+** chart accuracy
- Reduced perceived wait time by **3x** by delivering a Server-Sent Events (SSE) streaming endpoint with typed status events, replacing static loaders with live agent progress tracking
- Designed structured prompt templates and evaluation harnesses to benchmark intent classification accuracy at **92%** across multi-turn conversations

Software Engineer II | HashedIn by Deloitte

Oct 2024 – Nov 2025

Bangalore, India

- Led development of a licensing dashboard using React, Redux, and TypeScript with RESTful APIs, replacing manual Excel workflows and reducing overhead by **40%**
- Cut initial payload by **35%** by implementing interactive Plotly.js dashboards in Next.js with lazy loading, code splitting, and responsive layouts across desktop and mobile
- Designed a drag-and-drop folder management system, improving UX and reducing navigation time by **30%**
- Established test-driven development workflows through bi-weekly code reviews, contributing to a **20%** drop in QA bugs

Software Engineer I | HashedIn by Deloitte

Aug 2022 – Oct 2024

Bangalore, India

- Built a low-code content management system using Strapi, React, and GraphQL with role-based access control, cutting content turnaround time by **50%**
- Automated Okta app creation and auth middleware setup via Node.js scripts, reducing app provisioning time by **70%**
- Increased test coverage from **20% to 80%** using Jest and React Testing Library, leading to a **25%** drop in post-release bugs
- Improved Lighthouse score from **75 to 92** by migrating to modular TypeScript components with code splitting, tree shaking, and lazy route loading

Projects

Resulyze | AI app that turns a job posting into an ATS-scored, tailored LaTeX resume

Live Demo | GitHub

Inningz | Live cricket scores, ball-by-ball commentary, and win-probability charts in real time

Live Demo | GitHub

Scenic | Movie & TV discovery with trending carousels, instant trailers, and multi-server streaming

Live Demo | GitHub

Education

Bachelor of Technology in Information Technology | Guru Gobind Singh Indraprastha University

2022

New Delhi, India

Achievements

Microsoft Certified: Azure Developer Associate (AZ-204)

Open Source: built a zero-dependency PDF export for Hermes WebUI that keeps code and math formatting intact [GitHub]

Excellence & Rising Star Awards, HashedIn by Deloitte, multiple-time recipient for zero-defect delivery and top 2% performance [Link]