

MANISH PRASAD

Software Engineer | Full-Stack & AI Systems

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SUMMARY

Full-stack software engineer with hands-on production experience building AI-powered applications using Retrieval-Augmented Generation (RAG), LangChain, and agentic workflows, alongside scalable Node.js/TypeScript backends and React/Next.js frontends. Comfortable working across the stack, from designing REST APIs and database schemas to shipping polished, production-ready UI. Strong grounding in data structures and algorithms, reflected in 400+ LeetCode problems solved, and a track record of shipping features end-to-end under deadline pressure across 5+ hackathon wins.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Go

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

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Role-Based Access Control (RBAC)

Databases: PostgreSQL, MongoDB, Vector Databases (Qdrant)

AI / ML: LangChain, Retrieval-Augmented Generation (RAG), Agentic AI, Prompt Engineering, OpenAI API

Cloud & DevOps: AWS (EC2), Docker, Git/GitHub, CI/CD, Nginx, PM2, Redis

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, System Design basics

WORK EXPERIENCE

Full Stack Developer | *Alps Insurance - BimaScore, New Delhi, India*

Jul 2025 - Jun 2026

- Developed customer-facing UI components in React.js and Next.js, styled with Tailwind CSS, consuming REST APIs to render real-time insurance quotes across 4+ insurer platforms (Tata AIG, ICICI Lombard, Kotak Health360, and others).
- Designed and deployed a Retrieval-Augmented Generation (RAG) chatbot using LangChain, the OpenAI API, and Qdrant vector database, cutting average customer query resolution time by 40%.
- Improved bimascore.com Core Web Vitals, cutting page load times by 35% and lifting organic search rankings.
- Implemented secure, scalable REST APIs in Node.js, Express.js, and TypeScript with JWT authentication, request validation, and role-based access control (RBAC).
- Integrated multiple third-party insurance APIs to automate quote generation, KYC, proposal creation, policy issuance, and policy download workflows end-to-end, reducing manual processing time by roughly 50%.
- Deployed and maintained production services on AWS EC2 using Redis, Nginx, PM2, and SSL, supporting high-availability, secure releases.

Backend Developer Intern | *DSEU ERP System, Delhi, India*

Nov 2025 - May 2026

- Engineered RESTful APIs for student records, grading, and academic workflows used across DSEU's ERP system, supporting 18,500+ students university-wide and improving processing efficiency by ~40%.
- Established a secure role-based access control (RBAC) system covering students, faculty, and administrators, managing access for 3 distinct user roles across the platform.
- Optimized database queries and backend performance for large-scale academic data handling, cutting average query response time by ~30%.
- Implemented relative and absolute grading algorithms, reducing manual evaluation workload by 50% for faculty across multiple departments.

PROJECTS

Axion AI | *Personal Project*

- Created an AI-based learning application that generates notes, summaries, flashcards, and quiz questions from video, PDF, and audio input using LLMs with Retrieval-Augmented Generation (RAG), cutting study prep time by an estimated 60%.
- Designed a Node.js, Express.js, and TypeScript REST API backend to power document ingestion, context retrieval, and Q&A over user-uploaded content, supporting multiple file formats and sub-3-second query response times.

EDUCATION

Bachelor of Technology in Computer Science - GPA 8.0/10 | *Delhi Skill and Entrepreneurship University, Delhi, India* **Aug 2023 - Feb 2027**

ACHIEVEMENTS

- Won 5+ hackathons hosted at IIIT-Delhi, DTU, SRM, Amity University, and University of Delhi (2025).
- Solved 400+ Data Structures & Algorithms problems on LeetCode.