

NITINDEEP SINGH

Software Engineer | AI & SaaS Product Builder

nitindeep65@gmail.com

<https://www.coffeeanddeep.space/>

+91 7051419250

<https://www.linkedin.com/in/singhdeep1/>

SUMMARY

Full-stack software engineer with experience building AI-powered SaaS, e-commerce, and workflow automation products. Skilled in React, Next.js, Node.js, PostgreSQL, and AI/LLM integrations. Experienced in translating business requirements into scalable product features and collaborating across engineering teams to deliver user-focused solutions.

INDUSTRY EXPERIENCE

National Informatics Centre Services Inc. (NICS) India , J&K | March 26 / Present Software Applicant Support Engineer

- Developed and enhanced digital governance platforms used by government departments, improving operational efficiency and service accessibility.
- Automated deployment workflows using CI/CD pipelines for faster and reliable releases.
- Implemented secure authentication, API validation, and data protection mechanisms in web applications.
- Designed and implemented AI-powered chatbot solutions to reduce manual query handling and improve citizen self-service experiences.

PUPRING , USA New Jersey | Aug 25 / Feb 26 Full Stack Developer

- Developed full-stack e-commerce features using Next.js and Node.js for Shopify-based stores.
- Collaborated on e-commerce purchase experiences by developing product, order, and payment workflows that improved checkout completion and customer experience. Worked on automating system workflows using OpenCV and Python libraries.
- Used vector-based image processing techniques for face detection and feature identification. Implemented image preprocessing steps such as resizing, filtering, and frame analysis to improve detection accuracy.

BISAG-N (Ministry of Electronics and Information Technology) | Nov 24 / June 25 Software Developer

- Collaborated with cross-functional teams to deliver secure and scalable digital governance solutions..
- Participated in requirement gathering, feature implementation, testing, and deployment for production-scale government applications. working with production-level application
- Contributed to API integrations and workflow optimization initiatives supporting large-scale public sector platforms.

PRODUCT / SYSTEM

Velflow — AI-Powered Contract Intelligence & Contract Lifecycle Management (CLM) Platform URL :- <https://www.velflow.dev/>

- Built a FastAPI- and PostgreSQL-based Contract Intelligence platform integrating PyMuPDF, pgvector, and Next.js for unstructured document processing.
- Designed LLM-powered classification pipelines with JSON-constrained extraction and heuristic risk evaluation for contractual obligation analysis.
- Implemented embedding-based retrieval, vector indexing, and Retrieval-Augmented Generation (RAG) workflows for context-aware legal question answer
- Developed semantic clause matching, vector-based contract diffing, and temporal metadata extraction for change detection and renewal monitoring.

ValleyNuts.shop — AI-Powered E-Commerce Platform for Premium Dry Fruits URL :- <https://www.valleynuts.shop/>

- Developed a full-stack e-commerce platform using React.js, Node.js, Express.js, NeonDB, and Firebase for product, inventory, and order management.
- Integrated Razorpay, Firebase Authentication, SMS/OTP, and Google reCAPTCHA to enable secure payments and user authentication.
- Built scalable REST APIs and optimized NeonDB queries, improving backend performance, reliability, and response times.
- Implemented an AI-powered recommendation system and responsive SEO-friendly UI, increasing personalization, user engagement, and conversion rates.
- Integrated the Admin panel with Features like CMS , Orders & Payments , Products , Customers Management , React Charts Realtime

SPECIALIZATION

Frontend Development :- React.js • Next.js • TypeScript • JavaScript (ES6+) • HTML5 • CSS3 • Tailwind CSS • Material UI • shaden/ui • Responsive Design • Performance Optimization • SEO

Backend Development :- Node.js • Express.js • REST APIs • Authentication (JWT • OAuth • NextAuth • Clerk) • Server-Side Rendering (SSR) • API Development

Databases & Data :- PostgreSQL • MongoDB • Prisma ORM • Mongoose • Database Design • Query Optimization • Indexing • Vector Databases

AI / LLM Development :- Retrieval-Augmented Generation (RAG) • LangChain • Prompt Engineering • LLM Application Development • AI Integration • Google Gemini API • Semantic Search • Embeddings • ChromaDB

Product & Analytics :- Product Analytics • User Research • Requirement Gathering • Product Requirement Documents (PRDs) • Feature Prioritization • A/B Testing • Customer Journey Mapping • Data-Driven Decision Making

Agile & Collaboration :- Agile • Scrum • Jira • Confluence • Cross-Functional Collaboration • Stakeholder Communication

DevOps & Tools :- Git • GitHub • CI/CD (GitHub Actions) • Docker • Figma • Deployment Pipelines • Environment Management

Additional Skills :- Data Structures & Algorithms • System Design • API Design • Problem Solving • Debugging • BillDesk

EDUCATION

SRM Institute of Science and Technology

2020 — 2024 | Delhi NCR, India

Bachelor's Degree in Computer Science | CGPA: 8.16