

ANISH KUMAR SINGH

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Dehradun, Uttarakhand, India

Professional Summary

Motivated Full Stack Developer and AI Engineer with hands-on internship experience building scalable web and mobile applications. Proficient in React, Next.js, React Native, Node.js, and TypeScript, with strong expertise in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG) systems, and AI agent development. Skilled in Python and JavaScript, with experience working with MongoDB and MySQL for designing schemas and managing application data efficiently. Demonstrated strong problem-solving ability through extensive competitive programming experience.

Education

Bachelor of Technology in Computer Science - AI and Machine Learning

Uttarakhand Technical University

Aug 2022 – Jun 2026

Dehradun, Uttarakhand

Technical Skills

Programming Languages: Python, C, C++, JavaScript, TypeScript, SQL, HTML5, and CSS3

Frontend Development: React.js, React Native, Next.js, Expo, Tailwind CSS, and Three.js

Backend Development: Node.js, Express.js, FastAPI, GraphQL, REST APIs

AI/ML Technologies: Large Language Models (LLMs), Prompt Engineering, LangChain, Hugging Face, Ollama, RAG Systems, Vector Databases, Pinecone, Function Calling, Multi-Agent Systems and Vercel AI SDK

Databases and Tools: MongoDB, MySQL, Prisma ORM, Git, GitHub, Vercel, Clerk Authentication, and VS Code

Professional Experience

Full Stack Developer Intern

Nov 2025 – Present

Exponent Solutions

Onsite

- Developed and deployed 3+ full-stack web and mobile applications using Next.js, React, and React Native, improving user experience and application performance
- Designed and implemented RESTful APIs and optimized MongoDB database schemas to enhance backend efficiency and reduce response latency
- Built and integrated a Retrieval-Augmented Generation (RAG) based AI chatbot using LLMs and vector embeddings to enable context-aware and accurate responses
- Engineered dynamic frontend features using React and Next.js, building reusable components, managing application state, and optimizing rendering performance for smooth user interactions

Technologies: Next.js, React, React Native, TypeScript, Node.js, Express.js, MongoDB, Prisma ORM, REST APIs, LLMs, RAG, Vector Databases, Git

Projects

HopeBridge – AI Cancer Information Advisor (RAG System)

Jan 2026

- Designed and implemented a production-grade Retrieval-Augmented Generation (RAG) system using state-of-the-art LLMs and advanced embedding models for source-grounded medical information retrieval
- Built an end-to-end document ingestion pipeline including PDF parsing, intelligent text chunking, vector embedding generation, and semantic search over a vector database
- Integrated the AI backend with a Next.js frontend using Vercel AI SDK, implemented role-based access control (RBAC), and deployed the scalable application on Vercel

Tech: Next.js, React, Vercel AI SDK, Gemini 2.5 Flash, gemini-embedding-001, LangChain, Vector Database, RAG

HealSync - Healthcare Appointment Platform

Sep 2025

- Developed full-stack healthcare platform serving over 100 users with appointment booking, real-time consultations, and video calling
- Implemented a secure RBAC-based admin panel with HIPAA-aligned access controls, eliminating unauthorized access incidents and strengthening data security

Tech: Next.js, Prisma ORM, MongoDB, Clerk Auth, Tailwind CSS, Vercel

NutriMate - AI Diet Planning Mobile App

Jul 2025

- Built cross-platform React Native app for personalized meal recommendations with real-time nutritional tracking dashboard
- Integrated Google Gemini AI for intelligent meal suggestions with fallback logic ensuring uninterrupted user experience

Tech: React Native, Expo, TypeScript, Google Gemini AI, Context API

Achievements

Competitive Programming: Solved over 600 algorithmic problems on major competitive programming platforms, strengthening data structures, algorithms, and problem-solving skills.