

# Navneet Kumar

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## SUMMARY

MERN stack developer skilled in MongoDB, Express.js, React, and Node.js, with a passion for building AI-enhanced, user-focused applications. Adept at optimizing performance and deploying scalable cloud solutions. Eager to drive innovation in a collaborative, fast-paced team.

## EDUCATION

**Chandigarh Engineering College, Mohali** | Aug 2023 – Expected 2027

Bachelor of Technology in Information Technology

**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks

## FREELANCE EXPERIENCE

**Backend System for NGO Attendance Management** | [[github](#)]

- Developed a scalable backend for Ashray, an NGO-focused attendance management system, using Node.js, Express.js, and MongoDB.
- Designed RESTful APIs to streamline attendance tracking and reporting, enhancing operational efficiency and deployed on AWS EC2 for reliable hosting.
- Reduced manual attendance tracking time by 50% and operational costs by 80%

## PROJECTS

**Retrieval-Augmented Chatbot with Dynamic Knowledge Bases** | [[live demo](#)] [[github](#)]

- Engineered an intelligent chatbot using LangChain, OpenAI APIs, and Retrieval-Augmented Generation (RAG) architecture, achieving 90% accuracy in context-aware responses by implementing semantic search with vector embeddings and Supabase vector store.
- Implemented modular vector embedding system that enables rapid adaptation to any domain by simply updating training data, cutting deployment time for new use cases by 75% compared to traditional chatbot development approaches.

**MERN Stack Authentication Service** | [[github](#)]

- Designed and implemented a full-stack authentication and authorization backend using MongoDB, Express.js, React.js, and Node.js
- Features include secure user registration, email verification via OTP, password hashing, JWT-based login, token refresh mechanisms, and middleware for protected API routes.
- Enabling 100% secure user sessions with JWT-based access and refresh tokens.

**AI-Powered Birthday Wishes Generator** | [[live demo](#)] [[github](#)]

- Developed a modern, interactive web application using React that generates personalized birthday wishes leveraging AI technologies.
- Integrated Gemini LLM API for dynamic content creation, showcasing skills in React, JavaScript, API integration, and user experience design.
- Utilizing React hooks for 50% faster rendering.

## PROFESSIONAL SKILLS

- **Programming Skills:** JavaScript, Java, Python, C, C++, Data Structures and Algorithms, SQL
- **Frameworks & Libraries:** React, Node.js, Express.js, React Native, Expo
- **Databases:** MongoDB
- **AI & Machine Learning:** LangChain, OpenAI APIs, Retrieval-Augmented Generation (RAG), Vector Embeddings
- **DevOps & Tools:** Docker, Linux, Git, GitHub, AWS(S3, EC2, Lightsail)
- **Other Skills:** REST API development, JWT-based authentication, API integration, Agile development practices.