Anshul Sehgal

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Summary

Software Engineer | Full Stack Developer skilled in Java, JavaScript, and cloud-based application development. Experienced in designing, developing, and deploying scalable web applications using Node.js, React, MongoDB, and MySQL. Strong understanding of Agile development, CI/CD pipelines, and software testing practices. Passionate about building high-quality enterprise software and collaborating across teams to deliver impactful products.

Skills

Programming Languages: Java, JavaScript (ES6+), TypeScript, Python

Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Tailwind CSS, RESTful APIs

Cloud & DevOps: CI/CD Pipelines, GitHub Actions, Docker (Basics), Cloud Deployment, SaaS/PaaS Concepts

Databases: MySQL, MongoDB, Database Design, Query Optimization

Software Engineering Practices: Object-Oriented Programming, Data Structures & Algorithms, Unit Testing, Agile/Scrum, Code Reviews, Debugging, Documentation

Core Competencies: Feature Ownership, API Design, Scalable Architecture, Problem Solving, Collaboration, Software Quality Assurance

Projects

MedNexus – Emergency Medical Alert System – Chitkara University　　　　　　　　Jan 2024 – Mar 2024

- Built scalable backend services using Node.js and Express.js following RESTful principles.
- Integrated MongoDB for real-time data storage and retrieval with sub-500ms response times.
- Implemented WebSockets for live updates and unit testing with Jest for reliability.
- Collaborated in a 3-member Agile team, participating in daily scrums and sprint reviews.

LocalAi – AI-Powered Knowledge Agent – Remote　　　　　　　　Aug 2025 – Sept 2025

Built a self-hosted AI assistant platform using Next.js, Node.js, ChromaDB and Ollama that provides ChatGPT-like capabilities with full offline operation and no cloud dependency.

- Improved factual answer accuracy by 70% using RAG (vector embeddings + semantic search over PDFs and chat history)
- Ensured 100% data privacy by processing all user data locally and preventing any external network calls.
- Implemented document chunking, vector embedding (nomic-embed-text), and semantic retrieval via ChromaDB.

Education

Chitkara University, BEng in Computer Science – Rajpura, Punjab, India　　　　　　　　July 2023 – July 2027

- CGPA: 9.02 (till date)

Certifications

Full Stack Web Development - Apna College – Sigma 4.0　　　　　　　　June 2025

- Frontend: HTML, CSS, JavaScript, React, Next.js, Tailwind CSS, TypeScript
- Backend: Node.js, Express.js, MongoDB, MySQL

Data Structures and Algorithms in Java - Apna College – Sigma 4.0　　　　　　　　Aug 2024

- Object-Oriented Programming, Collections Framework, Multithreading, Sorting, and Problem Solving