

Sagar Sharma

Full Stack Developer

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PROFESSIONAL SUMMARY

Results-driven Full Stack Developer with 3+ years of experience building scalable web applications using the MERN stack. Proficient in React.js, Next.js, Node.js, Python, FastAPI, Express.js, GraphQL, PostgreSQL, Redis, AWS, Docker, and Kafka. **Experienced in RAG (Retrieval-Augmented Generation) pipelines, LLM integration (OpenAI, Anthropic Claude), vector databases (Pinecone, pgvector), MCP (Model Context Protocol), text embeddings, and agentic AI workflows.** Skilled in microservices architecture, REST/GraphQL API design, third-party integrations, and Agile/Scrum delivery.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL

Frontend: React.js, Next.js, Redux, Tailwind CSS, Bootstrap, Material UI, d3.js, HTML5, CSS3

Backend: Node.js, Express.js, NestJS, GraphQL, REST APIs, WebSocket, FastAPI, Microservices Architecture

AI & ML: RAG (Retrieval-Augmented Generation), LLM Integration (OpenAI, Claude), Text Embeddings (Ada-002, Sentence Transformers), Vector DBs (Pinecone, pgvector, Weaviate), MCP (Model Context Protocol), Semantic Search, Multi-Agent AI

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3), Docker, Kafka, Nginx, CI/CD Pipelines

Testing & Tools: Jest, Mocha, Chai, React Testing Library, Git, GitHub, JIRA, JWT, Agile/Scrum

WORK EXPERIENCE

Hello Mentor Pvt. Ltd.

Sep 2023 – Present

Full Stack Developer | Bengaluru, India

- Built RESTful and GraphQL APIs using Node.js and Express.js for student counseling, admissions, and document management workflows — improving system reliability by 25%.
- Developed React.js and Next.js UIs with Redux state management, achieving 20% faster page loads; integrated AWS S3 for secure file storage, reducing upload times by 30%.
- Implemented JWT-based authentication; designed optimized data models across PostgreSQL and MongoDB; applied Redis caching to improve API response times.
- Integrated Zoho APIs (Backstage, Payments, CRM), JODO payment gateway, and SpeedLabs APIs; built Python/Puppeteer scraping pipelines for counseling data and exam results.
- Integrated **MCP (Model Context Protocol) servers** to expose tools to LLM agents; built **RAG pipeline with vector databases (pgvector/Pinecone)** and **text embeddings (OpenAI Ada-002)** for semantic search-powered counseling recommendations and agentic prediction workflows.
- Containerized services with Docker; followed structured Git branching in Agile/Scrum sprints with sprint planning, stand-ups, and code reviews.

Alpha World Tech

Jan 2023 – Aug 2023

Junior Full Stack Developer

- Built and maintained full-stack features using React.js, Node.js, Express.js, and MongoDB; developed reusable UI component libraries that reduced frontend development time by 30%.
- Designed and consumed REST APIs for multiple client-facing modules; wrote unit and integration tests using Jest and Mocha achieving 80%+ code coverage.
- Implemented role-based access control (RBAC), form validations, and dynamic data rendering across web applications.
- Collaborated in a team of 5 engineers to deliver client projects end-to-end within deadline using Agile methodology, JIRA, and Git version control.

PROJECTS

Secure Code Analyzer | Node.js, Redis, MongoDB, Temporal, Multi-Agent AI, LLM, RAG, Vector Search

- Designed a multi-agent AI platform for real-time code vulnerability detection; integrated LLM agents with RAG pipeline to analyze codebases and surface security risks using context-aware semantic retrieval.
- Built Node.js APIs for automated security recommendations; implemented Redis for response caching, Temporal for workflow orchestration, and MongoDB for secure audit data storage.
- Used text embeddings and vector similarity search (pgvector) to match code patterns against known vulnerability knowledge bases, enabling semantically relevant security alerts.

EDUCATION

Master of Computer Applications (MCA)

2021 – 2023

New Horizon College of Engineering, Bengaluru, Karnataka | CGPA: 8.79 / 10