

EXPERIENCE

DigitalSherpa

Software Programmer

Kolkata, West Bengal

September 2023–Present

- Developing and maintaining scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Designing and implementing RESTful APIs to support dynamic frontend features and efficient data management.
- Building responsive user interfaces using React and Material-UI, improving usability and performance.
- Collaborating with cross-functional teams to deliver new product features and enhancements.
- Optimizing database queries and backend services to improve application performance and reliability.

SKILLS

Technical Skills

- **Programming** - JavaScript, TypeScript, HTML, CSS
- **Frontend Development** - React.js, React Native, Redux, Tailwind CSS
- **Backend Development** - Node.js, Express.js, REST APIs, JWT, bcrypt, WebSocket, Socket.io, SSE
- **Database & Cloud** - MongoDB, Mongoose, DynamoDB, AWS S3
- **AI/LLM Integration** - OpenAI API, Agents SDK, LangChain, MCP, Assistant API, Streaming Responses
- **Developer Tools** - Git, GitHub, Bitbucket, Postman, Visual Studio Code

PROJECTS

- **IVA - AI Agent Management & RAG Platform:** Built a production-grade AI platform to manage multiple AI agents, their configurations, and retrieval-based workflows across web and mobile interfaces. Developed secure admin APIs for OpenAI credential management, per-agent model configuration, and approval-based setting updates via automated email workflows. Implemented Retrieval-Augmented Generation (RAG) pipelines with vector search integration, enabling context-aware AI responses from custom knowledge bases. Built a real-time streaming response system using Server-Sent Events (SSE) for seamless AI interactions. Designed and developed a dynamic report generation module with support for custom fields, allowing users to define their own report templates, select data parameters, and auto-generate structured reports — which were then formatted and delivered programmatically. Integrated analytics tracking across agent interactions to monitor usage patterns, response quality, and system performance. (*Technologies: Node.js, Express.js, React.js, React Native, OpenAI API, Agents SDK, LangChain, PostgreSQL, Vector DB, Azure SSE.*)
- **YUHI – Real Estate & Finance Referral Management App:** Contributed to the development of a mobile application published on the Google Play Store to streamline lead tracking, property sharing, and commission management. Implemented referral logging, document uploads, personalized dashboards, automated payout calculations, real-time notifications, training modules, and a chatbot for customer support using socket-based communication. (*Technologies: React Native, Firebase, Redux, Google Cloud, Socket.io*)
- **Iflow - Advanced Business Process Solution (AI-Powered):** Worked as an **Angular Developer** to enhance user interface and user experience. Collaborated with the team to resolve bugs and implement new features for improving business workflows and overall platform usability. (*Technologies: Angular, TypeScript, CSS*)
- **AI-Powered RAG Agent System:** Developed an intelligent agent leveraging **Retrieval-Augmented Generation (RAG)** architecture to provide context-aware responses. Implemented document processing, vector database integration, and real-time query handling using **OpenAI Agents SDK, MCP (Model Context Protocol), and LangChain**. Built streaming response capabilities with WebSocket communication for seamless user interaction. (*Technologies: Node.js, OpenAI API, MCP, LangChain, Vector DB, Socket.io*)
- **E-commerce Platform (DS Commerce Project):** Acted as the **Frontend Developer and Team Lead**, making key decisions on frontend architecture and technology stack. Integrated payment gateways, developed interactive admin dashboards, and delivered a seamless shopping experience across the platform. (*Technologies: React.js, Material UI, Payment Gateway Integration*)

EDUCATION

Mirza Ghalib College, Gaya, Bihar

BA in Economics

Masai School

Full Stack (MERN) Development Certification Program

March 2022–December 2022

- Completed hands-on projects on MERN stack with real-world application scenarios.

ACHIEVEMENTS

- Full Stack Development Certification Program, Masai School
- Received Spot Recognition at Digital Sherpa for outstanding contribution and rapid delivery across high-impact projects
- Recognized as Employee of the Month multiple times at Digital Sherpa for consistent performance, ownership, and strong execution