

SHERI MANASA

manasasheri02@gmail.com | +91 630-487-7432 | Hyderabad, India
GitHub: [Manasa-tech02](#) | LinkedIn: [Sheri Manasa](#)

PROFESSIONAL SUMMARY

Full Stack AI Developer with hands-on experience building AI-powered, full-stack web and mobile applications through internships at Unify Technologies Pvt. Ltd. and Zenetia AI Labs. Proficient in React Native, React.js, Next.js, Node.js, Express.js, TypeScript, FastAPI, and REST API integration, with practical experience integrating LLMs, Retrieval-Augmented Generation (RAG) pipelines, and vector databases into responsive, production-ready applications. Skilled in developing intuitive user interfaces, building scalable backend services, implementing state management, and collaborating with cross-functional teams. Strong problem-solving, debugging, and software development skills with a passion for building reliable, intelligent, user-centric solutions.

WORK EXPERIENCE

Unify Technologies Pvt. Ltd.

September 2025 – Present

Engineering Intern · Hyderabad, India

- Developed cross-platform mobile applications using React Native and Expo.
- Integrated REST APIs and handled data-driven workflows between frontend and backend systems.
- Built responsive, reusable UI components for scalable application development.
- Implemented state management solutions using modern frontend practices.
- Collaborated with backend developers to ensure efficient data retrieval and application performance.
- Participated in testing, debugging, and optimizing application workflows.

Zenetia AI Labs

June 2025 – August 2025

Full Stack Developer Intern · Hyderabad, India

- **Arxiv Researcher (Flagship Product):** Contributed to the company's flagship product — a Retrieval-Augmented Generation (RAG) chatbot that helps users read and understand research papers more effectively, built with a Next.js frontend and FastAPI backend.
- Developed responsive frontend interfaces in Next.js and integrated them with FastAPI services to power retrieval-augmented question answering over research papers.
- Assisted in the development of full-stack web applications using React.js and backend APIs.
- Improved UI/UX in collaboration with the design team.

PROJECTS

AI PDF Chat Assistant: A RAG-based mobile application that lets users chat with their PDF documents and receive grounded, context-aware answers sourced directly from the uploaded content.

- Built a React Native frontend with TanStack Query and Axios for efficient API calls, data fetching, caching, and state management.
- Developed a FastAPI backend orchestrated with LangChain to power the retrieval-augmented generation (RAG) pipeline.
- Integrated Groq-hosted LLMs for fast, low-latency inference and Cohere embeddings for high-quality semantic search.
- Used Qdrant as the vector database for storing and retrieving document embeddings, with MongoDB for metadata storage.
- Implemented document ingestion, chunking, and embedding workflows to enable accurate, source-grounded question answering over PDFs.

Tech Stack: React Native, TanStack Query, Axios, FastAPI, LangChain, Groq, Cohere, Qdrant, MongoDB.

Unifycare-SmartGlass (Android XR): A hands-free Android XR (Extended Reality) healthcare solution that assists clinicians in hospital environments, using a voice-driven spatial interface for real-time patient data retrieval to reduce manual documentation and improve clinical workflow efficiency.

- **Reactive Voice Engine:** Architected a high-performance voice-command system using Android's native SpeechRecognizer and Text-to-Speech (TTS) APIs.
- **Context-Aware Intent Mapping:** Built an intent engine using a weighted-keyword scoring algorithm with "Action-Verb Overrides" to distinguish data-retrieval queries from clinical instructions, enabling hands-free navigation and accurate medical dictation.
- Developed the Android UI in Kotlin and Jetpack Compose with offline data persistence and synchronization via Room Database.
- Integrated CameraX with ZXing for robust barcode scanning, and used Android Studio Network Inspector to analyze requests/responses and troubleshoot integration blockers.
- Implemented error handling and validation to improve reliability, and collaborated on testing, debugging, and feature validation.

Tech Stack: Kotlin, Jetpack Compose, Android XR SDK, Hilt, Retrofit, Coroutines, Flow, CameraX, ZXing, Room, Firebase.

Student Registration Application: A full-stack student registration application (React Native + Expo frontend) with a secure Express.js backend, implementing end-to-end CRUD operations for student records.

- Developed RESTful APIs using Express.js for scalable backend services.
- Implemented JWT-based authentication and authorization using access and refresh tokens, with session management and secure token-refresh workflows.
- Built middleware for request validation, authentication, and centralized error handling.
- Configured CORS policies and implemented rate limiting and API security measures to protect against excessive requests and abuse.
- Designed PostgreSQL database schemas, optimized data access patterns, and integrated backend services with the frontend for end-to-end workflows.

Tech Stack: React Native, Expo, Express.js, JWT, React Query, Neon PostgreSQL, REST APIs.

SplitWise – Mobile Expense Sharing Application: A full-stack mobile expense-sharing application that lets users track shared expenses, split bills, and manage group settlements in real time.

- Designed and developed end-to-end workflows from frontend to a Supabase-managed PostgreSQL database.
- Implemented user authentication and authorization using Supabase Auth.
- Used Redux for predictable state management, with caching and real-time data synchronization via Supabase.
- Built offline-friendly workflows to maintain usability during network interruptions.
- Developed core features — group creation, expense logging, balance calculation, and debt settlement — with input validation and error handling.

Tech Stack: React Native, Redux, Supabase, PostgreSQL, Supabase Auth.

EDUCATION

Matrusri Engineering College (OU)

2021 – 2025

B.E., Electronics and Communication Engineering · Hyderabad, India

Kendriya Vidyalaya Tirumalagiri (CBSE)

2019 – 2021

12th Grade · Hyderabad, India

CERTIFICATIONS & SKILLS

Certifications: Python Fullstack (Digital Edify, Jan 2025 – Jun 2025), Full Stack Web Development (Coursera), Python (Udemy), Embedded Development (Eduskills), Git & GitHub Essentials (Udemy).

Languages: JavaScript, TypeScript, Python, SQL.

Mobile & XR: React Native, Expo, Redux, Jetpack Compose, Android XR SDK, CameraX, Android Studio.

Frontend: React Native, React.js, Next.js.

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

AI / ML: LLM APIs, RAG (Retrieval-Augmented Generation), LangChain, Cohere Embeddings, Groq, Whisper (speech-to-text), Prompt Engineering.

Database & Auth: PostgreSQL, Neon PostgreSQL, MongoDB, Qdrant (Vector DB), Supabase, Firebase, OAuth 2.0.

Tools & Libraries: Git, GitHub, React Query, TanStack Query, Swagger, Postman.