

Mahith Naidu Bandaru

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SKILLS SUMMARY

Languages:	Java, Python, JavaScript, TypeScript, SQL
Backend / Frontend:	Spring Boot, Node.js, Express.js, FastAPI, Django, REST APIs, Microservices, Next.js, React
Distributed & Data:	Apache Kafka, Redis, Event-Driven Architecture, PostgreSQL, MongoDB, Prisma ORM
AI / ML:	LangChain, RAG, AI Agents, LLM Function Calling, Prompt Engineering, Amazon Bedrock, SageMaker
Cloud & DevOps:	AWS, Docker, CI/CD, Git, Unit & Integration Testing

EDUCATION

MLR Institute of Technology	Hyderabad, India
Bachelor of Technology – Computer Science; CGPA: 8.50/10	Expected May 2027
Relevant Courses: Data Structures & Algorithms (Java), Object-Oriented Programming, System Design, Computational Applications	

EXPERIENCE

ASAN Innovators	Jul 2025 – Feb 2026
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Software Engineer & Product Intern

- End-to-End Ownership:** Owned delivery of 3+ production websites for healthcare clients, running discovery calls with doctors to scope requirements, then planning the architecture and build roadmap independently.
- Flagship Build:** Built a patient-facing portfolio and appointment-booking platform for a plastic surgery practice, turning the UI/UX designer’s flows into a responsive Next.js frontend backed by a Django backend and admin.
- Post-Launch Support:** Maintained all live deployments after launch, triaging client-reported issues and shipping fixes directly.

CIE, MLR Institute of Technology	2024 – Present
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Student Mentor

- Mentorship:** Mentored 4 student teams through an MSME-judged innovation challenge, running code and system-design reviews; all 4 teams shipped working prototypes and won recognition.

Rinex	Aug 2023 – Feb 2024
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Web Developer Intern

- Client Delivery:** Shipped responsive features and third-party API integrations for live client projects in React, Next.js and Django.
- Reusable Architecture:** Built reusable component patterns and adopted AI-assisted workflows to ship faster.

PROJECTS

MediChat AI – AI Healthcare Assistant GitHub	ISF Dubai 2025 Finalist
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Python, FastAPI, LangChain, ChromaDB, Groq (Llama 3.1), React, Node.js, Docker

- Built a healthcare assistant that lets patients check symptoms and book doctor appointments over **WhatsApp** and a web app, with one Dockerised AI backend serving both channels and auto-deployed on Render; **tested by 50+ users**.
- Designed a **RAG pipeline** (LangChain, ChromaDB, MiniLM embeddings) over curated medical content, served by **Llama 3.1 on Groq** for grounded, low-latency answers.
- Added medical safety layers: intent detection, fever triage, **prompt-injection filtering** and conversation memory.
- Built a React wellness dashboard that turns **sentiment analysis** and symptom trends into a health score with automatic alerts; an LLM parses WhatsApp chats into structured bookings.

Multi-Tenant AI Business Operations Platform Live Demo
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Next.js 14, Node.js, Prisma, PostgreSQL, JWT, SSE, Gemini API

- Architected a **multi-tenant SaaS** platform with tenant-isolated data, **REST APIs** and JWT auth, verified by automated isolation tests; deployed serverless with pooled Prisma connections.
- Built a real-time **AI agent** using Gemini 2.0 Flash, SSE streaming and **LLM function calling** to fetch CRM data autonomously.

SpiderX – Distributed Web Crawler & Search Engine GitHub
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Java 21, Spring Boot 3, Apache Kafka, Redis, Apache Lucene, Docker

- Designed a **distributed system** of 4 decoupled **Spring Boot** services (frontier, crawler, indexer, search API) communicating over **Apache Kafka**, with Redis for global URL deduplication and horizontally scalable workers.
- Used **Java 21 virtual threads** for concurrent fetching and an NLP scorer to prioritise URLs into a sharded Lucene index.

CERTIFICATIONS & ACHIEVEMENTS

- AWS Certified AI Practitioner (AIF-C01):** Amazon Web Services, Sep 2026.
- ISF Dubai 2025 Finalist & MSME Funding:** MediChat AI chosen from **10,000+ projects**; exposure to medical companies.
- 2× Runner-Up:** Metaloop Hackathon (full-stack build) and Ideathon – IIT Hyderabad (product pitch).
- U-19 District Cricket Captain:** Led a competitive team under pressure.