



MANIKANTA CHADARAM

SENIOR FULL STACK AI APPLICATION ENGINEER

Full Stack Engineer and Team Lead with 11+ years delivering production web, backend and mobile systems. Builds AI-enabled applications using LLM function calling, RAG, embeddings, vector databases and agent workflows. Combines React, Spring Boot, Node.js, Python and FastAPI with client collaboration, mentoring and end-to-end delivery ownership.

CONTACT

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CORE SKILLS

- React.js architecture
- Java Spring Boot
- Node.js REST / WebSocket
- Python and FastAPI
- MySQL / PostgreSQL / MongoDB
- Microservices
- Docker / Jenkins CI/CD
- AWS EC2 / RDS
- Spring Security / JWT
- Firebase / Git

AI ENGINEERING

- LLM integration and function calling
- RAG and embeddings
- Vector databases
- AI agents
- LLM evaluations
- Prompt design and structured outputs
- Vision LLM document extraction
- Groq API
- Ollama / Gemma
- Claude Code / Cursor / Copilot

MOBILE

- Flutter - Clean Architecture, BLoC, MVVM
- React Native
- Android Native
- iOS Native
- App Store and Play Store delivery

EDUCATION

- B.Tech - Computer Science
- Simhadhri Educational Society of Engineering and Technology
- Visakhapatnam | 2014

FEATURED PROJECT - FINPULSE LOS / LMS

FINPULSE - LOAN ORIGATION AND MANAGEMENT SYSTEM

- React | Java Spring Boot | MySQL | AWS | Docker | Groq AI | Independent project
- Built the full lending lifecycle from customer onboarding and credit assessment through approvals, disbursement, servicing, collections, NPA management and closure.
 - Implemented an AI chatbot using Groq LLM function calling to collect structured information and invoke validated customer and loan creation APIs.
 - Integrated vision LLM processing for PAN and Aadhaar extraction to support KYC onboarding.
 - Delivered 65+ REST APIs, a 22-table schema and a 37-screen React dashboard with multi-level approval routing.
 - Reduced one nightly EOD phase from approximately 19,000 database calls to 4; processes 300 loans and 9,270 EMI records.

PROFESSIONAL PROJECTS

BSNL - E-AUCTION AND RECHARGE PLATFORM

HashStack Solutions | Spring Boot | React | PostgreSQL | Microservices
Auction, refund, queue, cancellation and OTP workflows delivered with a three-person team.

MONEY POOL - COMMUNITY FUND MANAGEMENT

Tech Star Groups | Node.js | React | Flutter
Digital community fund platform with automated pool draws for an Australian client.

CALCIUM HEALTH - REMOTE HEALTH MANAGEMENT

Health Champion | Node.js | React | Flutter
Integrated hospital records, Fitbit and Apple Health across web and mobile.

MYBOS - BUILDING MANAGEMENT SYSTEM

Tech Star Groups | Java APIs | Firebase | Flutter
Building-manager and resident applications with role-based access and notifications.

CARRIER 360 - FREIGHT MANAGEMENT

Thoughtntriques | React Native | Java APIs | Google Maps
Freight booking, tracking, rewards and route optimisation for J.B. Hunt.

WORK EXPERIENCE

TEAM LEAD

HashStack Solutions | Visakhapatnam
Oct 2024 - Jun 2026
Led full-stack delivery across React, React Native, Flutter, Java Spring Boot and Node.js. Owned requirements through production, conducted code reviews, mentored junior engineers, planned sprints and worked directly with clients.

SENIOR SOFTWARE ENGINEER

Tech Star Groups | Hyderabad
Jan 2023 - Aug 2024
Delivered React, Flutter, Spring Boot and Node.js features using PostgreSQL and MongoDB. Contributed to API design, sprint planning and mentoring across Money Pool and MyBOS.

SOFTWARE ENGINEER

Health Champion | Coimbatore
Jun 2021 - Nov 2022
Built React, React Native, Flutter and Java API integrations for Calcium Health, including hospital data, Fitbit and Apple Health.

SOFTWARE ENGINEER

Pena4Tech | Visakhapatnam
Apr 2019 - May 2021
Developed enterprise web and mobile features using React, React Native, Flutter and Android with Java backend integrations.

FINTECH DOMAIN

- Loan lifecycle LOS / LMS
- EMI amortisation
- DPD / NPA classification
- Credit underwriting DTI / FOIR
- Multi-level approvals
- NACH processing
- RBI provisioning
- EOD batch processing

COLLABORATION

- Team leadership and mentoring
- Client communication
- Requirements and solution design
- Sprint planning and code reviews
- Cross-functional product delivery

WORK EXPERIENCE - CONTINUED

SOFTWARE ENGINEER

Thoughtniques Technologies | Hyderabad
[Dec 2017 - May 2019](#)
Delivered React, React Native and Node.js features for fleet tracking and Carrier 360 using Maps, Firebase and REST APIs.

JUNIOR SOFTWARE ENGINEER

Sparity Pvt Ltd | Hyderabad
[Apr 2016 - Nov 2017](#)
Developed Android features for FitMetrix and Jenkins CI/CD pipelines for configurable white-label deployments.

SOFTWARE TRAINEE

Neelsys Pvt Ltd | Visakhapatnam
[Sep 2014 - Mar 2016](#)
Developed native Android applications in the first professional role.

AI ENGINEERING KNOWLEDGE

- Python and FastAPI for AI service development and API integration.
- RAG using embeddings and vector databases for grounded responses.
- AI agent workflows for multi-step tool use and task execution.
- LLM evaluation concepts for response quality, correctness and regression monitoring.