

Shanmukha Sriram Maruvada

Senior AI Engineer · Mortgage · Healthcare · AI Systems in Production

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SUMMARY

Senior AI engineer building LLM-backed and agentic systems for domains where failure is expensive — US mortgage, healthcare, and internal IT infrastructure. Moved from trainee to senior in under a year by owning client-facing delivery rather than by tenure. Works the full span: architecture review, implementation, production support, and the compliance layer underneath. Named ISO 27001 contact for the organisation.

CORE SKILLS

LANGUAGES	Python, FastAPI, SQL
AI & LLM	LLM integration, agentic systems, multi-agent orchestration, RAG, prompt engineering, MCP, Agno, LiteLLM, Langfuse
AI TOOLING	Claude Code — AI-assisted delivery across frontend (React, Next.js, Node.js) and rapid prototyping
ARCHITECTURE	Microservices, HLD/LLD authoring, API design, event-driven workflows, distributed tracing, observability
DATA & INFRA	PostgreSQL, SQL Server, Azure SQL, Redis, Celery, Docker, Pandas, SQLAlchemy, Alembic, Prisma
CLOUD	Azure App Service, Key Vault, Blob Storage, Data Factory, Databricks, Logic Apps, Entra ID (MSAL/JWKS), Microsoft Graph, Azure Pipelines
COMPLIANCE	ISO 27001, ISO 9001, RBAC, access governance, endpoint policy, Intune, encryption at rest, audit logging

EXPERIENCE

Antz AI	Hyderabad, India · Sep 2024 – Present
Trainee → Intern → Software Engineer → Senior AI Engineer	
Senior AI Engineer	Jun 2025 – Present
- Lead engineer on client-facing delivery for a US mortgage and lease management platform — contributed to the v1.0 build, then led v1.5 solo through release and production support; present architecture and trade-offs directly to client product leadership. - Architected and rebuilt an internal multi-agent project management platform into a 14-service microservices system with distributed tracing, centralised logging, and Key Vault-based multi-tenant credential management; approved at architecture review and shipped to production. - Built and own ARIA, the internal IT platform, from specification through phased production rollout; adopted company-wide as the system of record for IT assets and access. - Delivered Satya AI, a medical assistant for elderly users, end to end — now live on both iOS and Android — then transferred ownership to a maintaining team. - Own company IT and endpoint compliance: device and access policy, vendor procurement (20-device Intune/M365 laptop rollout), and audit logging aligned to ISO 27001 controls.	

- Named **secondary ISO 27001 compliance contact** with documented authority to reject improperly authorised access requests; authored the internal ISMS policy and control documentation set.
- Member of the internal Architecture Working Group reviewing HLDs and LLDs for sign-off before implementation; run triage across roughly seven concurrent workstreams and mentor interns.

Software Engineer

Mar 2025 – Jun 2025

- Contributed to internal POCs and hackathon sprints exploring early-stage AI and system design problems — the ground floor of what became production work.
- Diagnosed and resolved a recurring production outage caused by database connection exhaustion, introducing explicit lifecycle and shutdown handling that removed the need for scheduled restarts.

Intern

Jan 2025 – Feb 2025

- Built a staging-to-bronze ETL pipeline on Azure Data Factory, Databricks, and Logic Apps — first production exposure to cloud data engineering.

Trainee

Sep 2024 – Dec 2024

- Joined with no prior industry experience into a structured weekly assessment format — study, test, pass or exit. Failed early, course-corrected, and stayed.

SELECTED
PROJECTS

PMAG — Multi-agent project management platform. Chat-native agent that tracks work items, chases status updates, and escalates blockers across Microsoft Teams and Azure DevOps. Rebuilt into 14 containerised services after architecture review; now in production.

Python · FastAPI · Agno · Celery · Redis · PostgreSQL · MCP · Docker · Elastic/Kibana · Jaeger

ARIA — Internal IT and asset management platform. Asset tracking, employee assignment, credential vault, ticketing, and budget management with role-based access across Admin, HR, and User tiers. Built solo, rolled out in phases; now the organisation’s IT source of truth.

React · FastAPI · Azure SQL · Azure App Service · Entra ID (MSAL/JWKS) · Microsoft Graph · Fernet encryption

Satya — Medical AI assistant for elderly users. Conversational health guidance with a voice interface. Live on both the App Store and Google Play — Play Store approved on first submission; delivered end to end, then ownership transferred.

React Native · FastAPI · LLM integration · Voice (TTS/STT)

LMS — Lease management platform for a US mortgage client. Lease accounting, document workflows, and reporting. Built v1.0 with the team; led v1.5 solo through release and support.

FastAPI · Node.js · React · Next.js · Prisma · SQL Server · Entra ID · Azure Pipelines

EDUCATION

B.Tech, Computer Science & Engineering (AI & ML) Sep 2020 – Jul 2024 · Grade A
St. Mary's Group of Institutions, Hyderabad · Member, Placement Committee

Intermediate, MPC 2018 – 2020 · Grade A
Sri Gayatri Junior College