HARSHA GUNTAKA

SOFTWARE ENGINEER | FULL STACK AI PRODUCTS | AGENTIC AI

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years building full stack AI products and backend services. Owns delivery from ambiguous requirements and prototypes through React/TypeScript interfaces, Python APIs, PostgreSQL models, and deployment. Uses RAG, agents, product feedback, evaluations, and performance data to improve usability and reliability.

TECHNICAL SKILLS

Languages & Frontend: Python, TypeScript, JavaScript, SQL, React, responsive interfaces, Server-Sent Events (SSE)
Backend & Data: FastAPI, REST APIs, PostgreSQL, Redis, pgvector, data modeling, asynchronous workers
AI Product Engineering: LLM APIs, RAG, LangGraph, tool calling, agent workflows, prompt orchestration, evaluations
Cloud & Quality: AWS, Docker, GitHub Actions, CI/CD, pytest, integration tests, observability, latency optimization, AI coding agents

PROFESSIONAL EXPERIENCE

Airspan Networks | Software Engineer | AI Product Engineering *Sep 2024 – Present*

Network Investigation Workspace: *AI product for incident investigation, evidence retrieval, and saved findings.*

- Owned full stack delivery from product discovery to production, building React/TypeScript interfaces, Python/FastAPI services, and PostgreSQL data models for evidence-backed incident investigations.
- Iterated on streaming answers, inspectable citations, and visible progress using pilot feedback; increased weekly active usage from 38% to 71% of enabled users.
- Built LangGraph workflows for evidence retrieval and diagnostic tool calls with durable checkpoints, approval validation, and stable operation identifiers to avoid duplicate execution.
- Evaluated retrieval quality, agent tool selection, and argument validity on held-out tasks; improved context selection and validation, increasing task completion from 82% to 94%.
- Delivered AWS releases with Docker, GitHub Actions, and regression tests; monitored errors and latency and verified AI-assisted code changes through review and integration testing.

Rakuten Symphony | Member of Technical Staff | Backend Systems *Dec 2021 – Aug 2023*

Infrastructure Investigation Dashboard: *Web product for event visibility, diagnostics, and investigation workflows.*

- Built Python REST APIs and asynchronous workers to ingest infrastructure events, validate schemas, and preserve searchable PostgreSQL event histories.
- Developed React/TypeScript interfaces with live processing status, event filters, and failure drilldowns to streamline operational investigations.
- Designed restart-safe processing with stable event identifiers, PostgreSQL uniqueness constraints, and bounded retry handling.
- Investigated inefficient SQL queries and missing indexes, reducing p95 API latency from 800 ms to 310 ms under the measured workload.
- Added pytest integration tests and automated release checks to catch regressions in event ingestion, persistence, and API behavior.

EDUCATION & CERTIFICATION

M.S., Computer Science | University of Bridgeport, CT | August 2024
B.Tech., Electronics & Communication Engineering | Amity University, India | 2021
Advanced Certificate in Data Science | IIIT Bangalore | 2022–2023