Sriharsha Narra

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Summary

Forward deployed software engineer in healthcare. Works directly with the staff who use the software, from gathering requirements and design through rollout, training and production support, across backend, frontend, mobile, AI, cloud and security.

Experience

Forward Deployed Software Engineer *Sep 2025 – Present*
The Nephrology Group, Inc. *Fresno, CA*

- Worked with operations staff to scope and design a production app (FastAPI, PostgreSQL, Next.js) that replaced their spreadsheets and Slack threads for insurance eligibility checks and prior authorizations.
- Rebuilt the care-management system that care coordinators use for chronic care and remote patient monitoring (FastAPI, Next.js, Gemini on Vertex AI), including monthly charges pushed to billing.
- Own the Google Cloud platform our products run on (Cloud Run, Cloud SQL, KMS, Pub/Sub), and consolidated our Terraform infrastructure into one repo with no unintended changes.
- Built the company's single sign-on service (FastAPI, JWT, TOTP 2FA) and moved every production app and its users onto it.
- Built shared FastAPI integrations for an insurance clearinghouse (X12) and patient messaging, and worked on EHR data pipelines using FHIR.
- Built an ambient AI clinical scribe for providers as sole author (Gemini on Vertex AI, speech recognition, evals), currently pre-pilot.
- Built a RAG knowledge base with hybrid vector and keyword search (pgvector), reranking and a LangGraph agent.
- Maintain the practice's patient app (Flutter, live on iOS and Android) with its FastAPI backend, and the React/TypeScript component library our Next.js frontends share.
- Designed searchable field-level encryption for patient names in PostgreSQL, reused by other services.
- Wrote a one-command service scaffolder (Terraform, GitHub Actions) and the team's Claude Code plugin, skills and guardrail hooks.

AI Engineer Intern *Aug 2025 – Nov 2025*
ImpacterAI, Inc. *Remote*

- Built a full-stack email outreach app (Next.js, FastAPI) that drafts personalized emails with OpenAI models.

Software Engineer Intern *Mar 2022 – Aug 2022*
Phoenix Global *Hyderabad, India*

- Built a sentiment analysis system for IMDb reviews (Python, scikit-learn) with REST APIs and an AWS data pipeline.

Projects

Autonomous AI Data Analyst | *Python, LangChain, Llama 3, Pandas* *Jun 2025*

- Conversational agent that answers plain-English questions about CSV files, with tools for queries, outliers and reports.

Education

California State University, Fresno *Aug 2023 – May 2025*
Master of Science in Computer Science (GPA: 4.0/4.0) *Fresno, CA*

Gandhi Institute of Technology and Management *Jun 2019 – May 2023*
Bachelor of Technology in Computer Science *Hyderabad, India*

Technical Skills

Languages & Tools: Python, TypeScript, SQL, Dart, Bash, HCL, Claude Code, OpenAI Codex
Backend & Frontend: FastAPI, SQLAlchemy, PostgreSQL, pgvector, REST, SSE, React, Next.js, Tailwind CSS, Flutter
Cloud & DevOps: GCP (Cloud Run, Cloud SQL, KMS, Cloud Tasks, Pub/Sub), Terraform, Docker, GitHub Actions
AI: Gemini on Vertex AI, RAG, embeddings, LangChain, LangGraph, MCP, function calling, speech recognition, evals
Security & Healthcare: HIPAA, FHIR, X12 EDI (270/271, 276/277), OIDC, JWT, TOTP 2FA, field-level encryption