

Meghana Bodapati ThirumalaNaidu [Portfolio](#) [🔗](#)

Software Engineer-AI Systems | Los Angeles, California.

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Founding engineer turned enterprise architect — delivering fault-tolerant, low-latency agentic AI systems at scale.

PROFESSIONAL EXPERIENCE

Onetera Technologies Inc.

Los Angeles, CA

Forward Deployed AI Engineer — Founding Team

August 2024 - Present

- Architected a secure **LLM-powered citizen assistance platform** at **government scale** — automating manual intake and document workflows and **reducing citizen task resolution from days to under 15 minutes**.
- Established scalable **AI infrastructure standards** adopted across all initiatives — **reducing p95/p99 response times by 40%**, **cutting AI token costs by 30%**, and sustaining **99.9%+ production uptime**.
- Built an **intelligent semantic search system** across **millions of government documents** using vector indexing and retrieval benchmarks (**85% Recall@10**) — delivering **accurate AI responses in under one second** at scale.
- Designed and deployed a **cost-aware multimodal AI compliance system** with model-tiering and confidence-based escalation — **reducing manual review by 50%** and **LLM costs by 60%** while maintaining production SLAs.
- Institutionalized a **cross-model LLM reliability framework** with **hallucination detection** and response-consistency scoring — **reducing inaccurate outputs by 50%** and achieving **35% higher inference throughput** in production.
- Partnered with **Product, UX, and Ethics** stakeholders to operationalize **explainability and fairness standards** — introducing **automated bias audits** and increasing **citizen trust metrics by 20%** across multi-agency rollouts.

Accenture Solutions Private Limited

Bangalore, India

Software Engineer

November 2020 - August 2022

- Architected a **mission-critical enterprise platform** consolidating **30 subsidiary applications** into a unified system — serving **3,000+ daily active users** on **Azure cloud infrastructure** with **zero downtime SLA** at scale.
- Engineered a **React Component Library** adopted org-wide — **eliminating 40% UI fragmentation**, accelerating frontend delivery, and establishing **design system governance** across a large-scale enterprise **POS platform**.
- Championed **TDD and A/B experimentation** using **Jest** — establishing **quality gates** that eliminated pre-production bugs and validated UX decisions against **real user behavior at scale**.

Bosch Rexroth

Bangalore, India

Software Development Intern

June 2018 - July 2019

- Designed and integrated **70+ RESTful APIs** with Express.js — establishing **API contracts and documentation standards** via Postman and Apiary that became the **engineering baseline** for frontend-backend communication.
- Engineered a **real-time industrial IoT dashboard** on AWS serving **1,500+ users** — **reducing rendering complexity by 30%** and **improving user interaction by 25%** using Angular.
- Architected and implemented **enterprise-grade RBAC with JWT authentication** — **eliminating unauthorized access incidents** and establishing **security standards** across production systems handling sensitive industrial data.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES5/ES6), SQL, Java

AI/ML: LangChain, LangGraph, LangSmith, RAG, Vector DB, LLM Fine-Tuning (LoRA), Multimodal, RLHF

Frameworks: Next.js, React.js, Flask, NodeJS, Express.js, Angular, Redux, MongoDB, PostgreSQL

Infrastructure: AWS, Microsoft Azure, Docker, Kubernetes, Terraform, Splunk, Kafka, Jest, CI/CD

Developer Tools: LangSmith, Supabase, Render, Vercel, Clickhouse, Upstash, Stripe, Postman, Webpack

AI Safety: Bias Detection, Demographic Parity, Equalized Odds, SHAP, Observability, Audit Compliance

EDUCATION

California State University Fullerton

Fullerton, CA

Master of Science in Computer Science, **GPA: 3.97/4.0** (top 1% of class 2024)

August 2022 - May 2024

PROJECTS

CourseCraft AI - a course generator platform [🔗](#) | Next.js, GCP, Prisma ORM, Open AI, Stripe, ShadCN

February 2024

- Developed a subscription-based SAAS application that utilizes OpenAI's GPT-3.5 API for dynamically generating course content with YouTube videos, summaries, and MCQs based on user inputs and combined with Stripe services.

NFT-Nexus - A NFT-MarketPlace [🔗](#) | React.js, Axios, HardHat, Ethereum

December 2023

- Created a robust NFT marketplace with NFT creation, browsing, buying, and selling, with wallets & subscriptions.

Hadoop Spark Based Real Time Online Sales Data Analysis [🔗](#) | Hadoop, Spark, Kafka, Cassandra, MySQL

November 2023

- Configured Kafka for real-time sales data capture, utilized Spark for analysis, and stored the information in databases.