

Harianth Kalavala

AI Engineer

Phoenix, AZ | (602) 554-8109 | hkalaval@asu.edu | linkedin.com/in/harianthk | github.com/HarianthK | Portfolio

Authorized to work in the US on F-1 STEM OPT · visa sponsorship required in 2028

Professional Summary

AI Engineer with 2+ years of experience building production RAG systems, knowledge graphs, and LLM-powered applications. Skilled across the full stack of modern AI infrastructure — ingestion and chunking, embeddings, vector and graph retrieval, agentic orchestration, and evaluation/observability for LLM systems. Focused on turning unstructured data into reliable, low-latency retrieval that real products can depend on.

Technical Skills

Languages & Scripting: Python, SQL, JavaScript, REST APIs, WebSockets, Bash

AI & Machine Learning: LLMs, Retrieval-Augmented Generation (RAG), Agentic AI, LangChain, LangGraph, Prompt Engineering, Fine-Tuning, Knowledge Graphs, Vector Databases

Data Engineering: ETL/ELT Pipelines, Data Modeling, Metadata Management, Data Lineage, Information Catalogs, Real-Time Streaming, Data Quality Monitoring

Databases & Search: PostgreSQL, Neo4j, Graphiti, Pinecone, Chroma, Entity & Relationship Extraction, SQL Optimization

Cloud & Infrastructure: AWS, CI/CD Pipelines, API Integrations, Production Monitoring, Scalable System Design, Modular Architecture

Product & Collaboration: Agile/Scrum, Technical Roadmapping, Stakeholder Communication, Data-Driven Decision Making, Dashboard Development

Professional Experience

XNode AI

AI Engineer

06/2025 – Present

Remote, USA

- Architected an enterprise Information Catalog unifying metadata across PostgreSQL and 5+ data sources, enabling AI-powered discovery and lineage tracking across 100,000+ data assets.
- **Built production knowledge graph systems** using Neo4j and Graphiti to model relationships between data assets and business entities — reducing contextual search time by ~35% and improving RAG retrieval quality.
- Engineered AI-driven entity and relationship extraction pipelines transforming structured and unstructured data into knowledge repositories powering enterprise RAG applications.
- Developed scalable Python-based ingestion, validation, and indexing workflows supporting RAG and metadata management, achieving 99%+ pipeline uptime via CI/CD and production monitoring.

Arizona State University · Library Systems

Data & Operations Analyst (2.5M+ Item Repository)

10/2023 – 05/2025

Mesa, USA

- **Managed data integrity across a 2.5M+ item physical and digital repository** — one of the largest university collection systems in the US — ensuring accurate metadata, retrieval efficiency, and operational continuity.
- Built an archival inventory and reporting system indexing 9,500+ records, improving operational visibility by 40% and enabling data-driven resource allocation and collection strategy decisions.
- Authored Python scripts and SQL queries to automate metadata validation and root-cause analysis, reducing record duplication by 20%; produced recurring reports and ad-hoc analyses for executive stakeholders.

Idori Inc.

Software Engineering Intern · Interactive Media

05/2024 – 08/2024

Boston, USA

- **Analyzed user interaction data** to surface behavioral insights, driving 3 targeted feature improvements and a 54% increase in user engagement; built modular data-driven UI components and collaborated cross-functionally in Agile sprints.

Projects

LangGraph Agentic AI Platform · Python, LangGraph, LangChain, LLMs ·

GitHub →

Multi-agent AI system with real-time news analytics, geospatial risk scoring, and automated alerting for supply chain resilience — reducing manual monitoring effort by ~60%. Designed full agentic orchestration layer: state management, tool routing, memory, and LLM decision loops.

Registry Points · Data-Driven Web Platform · Python, REST API, JavaScript, Vercel ·

Live Demo →

Full-stack data application with user authentication, time-series performance tracking, and interactive visualizations — REST API backend with flexible querying and real-time updates; deployed to production on Vercel.

Education

Arizona State University, M.S. Information Technology (STEM), GPA: 4.0/4.0

May 2025, Mesa, AZ

Neil Gogte Institute of Technology, B.E. Computer Science & Engineering, GPA: 8.2/10.0

Jun 2023, Hyderabad, India