

# Svadrut Kukunooru

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## SUMMARY

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AI engineer building production LLM systems that save \$2M+/yr at Wayfair and scale to 1k+ concurrent users. Proven RAG + evaluation + infra stack; AWS Developer Associate certified. Strong interest in applied ML and agentic workflows.

## PROFESSIONAL EXPERIENCE

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### Wayfair

Boston, MA

*Software Engineer, Knowledge Management*

*Jan 2024 – Present*

- Collaborated directly with Google's engineering team to deploy an AI-driven knowledge retrieval system that deflected 50K/73K (**70%**) Talent org ServiceNow tickets, **saving \$2M annually** in support costs.
- Architected fault-tolerant, low-latency session management system supporting 1K+ concurrent users using in-memory caching and Firestore for resiliency.
- Built analytics pipeline ingesting 10K+ LLM user turns; enabled scalable evaluation and model behavior insights using BigQuery and internal tools.
- Created unsupervised ML pipeline with BERTopic and K-Means to generate representative queries for regression testing across support verticals.
- Evaluated LLM performance using metrics such as hallucination rate, groundedness, and precision/recall via LLM-as-a-judge pipeline; informed prompt iterations and regression testing.

### Wayfair

Boston, MA

*Software Engineering Intern, Legal Tech*

*Jun 2023 – Aug 2023*

- Developed and pitched Waybor, an AI-powered assistant converting CAD models to multimodal step-by-step assembly guides; **won Intern Innovation Challenge** (1st of 40+ teams).
- Built Spring Boot APIs enabling real-time rule validation for **10K+** supplier products, automating compliance workflows.

## PROJECTS

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**campusfy.app** | *Python, Next.js*

*Feb 2024 – May 2024*

- 10K+ impressions and 5K+ course views in first 2 months with RAG-based academic advisor interpreting queries like “easy CS electives” to surface courses from 20K+ academic listings for multiple colleges.
- Implemented vector search using Google's **gemini-embedding-001** model and custom difficulty heuristics.
- Built reranker to improve course recommendation relevance using weighted signals from user engagement (e.g., clicks, saves, feedback).

## TECHNICAL SKILLS

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**AI/ML:** LLM Evaluation, Embedding Models, Prompt Engineering, RAG, Vector Search, Google ADK

**Languages:** Python, JavaScript/TypeScript, SQL, R, Bash

**Frameworks/Libraries:** Flask, FastAPI, Docker

**Cloud/Infra/Data:** AWS (Certified), GCP, BigQuery, Supabase, Airflow, Terraform

**Tools:** Git, REST APIs, Looker

## EDUCATION

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**University of Wisconsin – Madison**

Madison, WI

*Bachelor of Science in Computer Science, Minor in Data Science*

*2021 – 2024*