

Svadrut Kukunooru

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SUMMARY

Software Engineer building production ML systems at Wayfair. Reduced support costs by \$2M annually through LLM-powered automation serving 1K+ daily active users. AWS Certified Developer with hands-on experience in Python, distributed systems, and production ML deployment.

PROFESSIONAL EXPERIENCE

Wayfair

Software Engineer, Knowledge Management

Boston, MA

Jan 2024 – Present

- Engineered LLM-powered support automation system processing 73K annual tickets with 70% deflection rate, directly saving **\$2M in operational costs**
- Built distributed session management infrastructure handling 1000+ concurrent users with 99.9% uptime using Redis caching, Firestore persistence, and custom retry logic
- Developed Python-based evaluation framework measuring LLM accuracy across 5 key metrics (hallucination rate < 5%, precision > 85%), enabling data-driven model selection
- Optimized BigQuery analytics pipeline processing 10K daily interactions, reducing query time by 60% through partitioning and materialized views

Wayfair

Software Engineering Intern, Legal Tech

Boston, MA

Jun 2023 – Aug 2023

- Won company-wide innovation challenge (1st/40+ teams) by building Waybor: multimodal AI system converting CAD files to assembly instructions using GPT-4 Vision API
- Developed Spring Boot REST APIs processing 10K+ products/day for automated compliance validation, reducing manual review time by 80%

PROJECTS

[campusfy.app](#) | Python, Next.js

Feb 2024 – May 2024

- Built full-stack web application serving 5K+ students across 2 universities for intelligent course discovery. 10K+ impressions
- Implemented RAG system using Gemini embeddings and Pinecone vector database to search 20K+ course listings with < 200ms latency
- Developed custom ranking algorithm incorporating difficulty scores, professor ratings, and user engagement metrics

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL

ML/AI: PyTorch, Scikit-learn, LangChain, OpenAI API, Embedding models, Vector databases

Backend: FastAPI, Flask, Spring Boot, REST APIs, GraphQL

Cloud/Data: AWS (Certified Developer), GCP, BigQuery, PostgreSQL, Redis, Docker, Kubernetes

Testing/Tools: pytest, Jest, Git, CI/CD (GitHub Actions), Terraform, Datadog

EDUCATION

University of Wisconsin – Madison

Bachelor of Science in Computer Science, Minor in Data Science

Madison, WI

2021 – 2024