

Sanjay Kumar

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Education

Indian Institute of Science (IISc) <i>M.Tech in Artificial Intelligence</i>	2024 – 2026 Bengaluru, Karnataka
Cochin University Of Science And Technology <i>B.Tech in Computer Science and Engineering (GPA: 8.23 / 10)</i>	2018 – 2022 Kochi, Kerala

Experience

Cisco Systems <i>Software Engineer</i>	Jan 2022 – Current Bengaluru, India
<ul style="list-style-type: none">Led the design and development of Agentic AI and RAG applications that execute action-based workflows such as license discovery, assignment, expiry checks, and transfers, demo licenses powered by real-time DB/API tool calls with role-based access control.Built an enterprise-grade chatbot (AskLicense) integrating Generative AI with enterprise licensing systems, enabling users to query, manage, and transfer licenses conversationally.Developed a multi-database comparison tool, reducing processing time by 80% and improving data accuracy by 20%.Orchestrated batch and streaming data pipelines (PostgreSQL/GCP → Snowflake), ensuring uninterrupted, scalable data flow.Architected and deployed complete DevOps infrastructure for GenAI apps using OpenShift, Docker, Kubernetes, ensuring scalability, monitoring, and high availability.Drove delivery of a new Centralized Password and Configuration Management product, eliminating redeployment needs due to config changes and reducing downtime to zero.Spearheaded caching features for a data pipeline tool, boosting efficiency up to 80% for very large tables.Built multiple POCs using Java Spring Boot, demonstrating adaptability and validating architectural concepts.	

Projects

AskLicense (Agentic AI Licensing Assistant) <i>Python, LangChain, LangGraph, LangSmith, MCP, OpenShift, Kubernetes, SQL</i> <ul style="list-style-type: none">Designed and built an Agentic AI application enabling users to query and manage software licenses conversationally.Implemented action-based workflows such as license discovery, expiry checks, transfers, and demo provisioning using real-time DB/API tool calls with role-based access control.Integrated Generative AI with enterprise data systems to answer documentation and compliance queries.Deployed with a fully automated DevOps infrastructure on OpenShift and Kubernetes, ensuring scalability and monitoring.	
Centralized Password Management <i>Python, FastAPI, Oracle, Vault, Splunk, Kubernetes</i> <ul style="list-style-type: none">Built a microservices-based system with secure secret storage, role-based access control, and passwordless authentication.Eliminated downtime caused by config changes and improved overall security with real-time Splunk monitoring and alerts.	
Data Pipeline Orchestration & Integration <i>Python, SQL, PostgreSQL, Kafka, GCP, AWS S3, Snowflake, Oracle, CockroachDB</i> <ul style="list-style-type: none">Engineered batch & streaming pipelines, enabling real-time data flow from PostgreSQL/GCP to Snowflake.Optimized pipelines with caching and validation, reducing transfer time by 50% and improving data accuracy.	

Technical Skills

Generative AI: RAG, LangChain, LangGraph, LangSmith, MCP, Azure OpenAI, Gemini, Anthropic, Llama
Programming: Python, Java, C(Basic), C++(Basic), JavaScript(Basic)
Data/Cloud: SQL, PostgreSQL, Kafka, Snowflake, AWS S3, GCP(Basic), CockroachDB
DevOps: Docker, Kubernetes, OpenShift, Jenkins(Basic), Git
Frameworks/Tools: FastAPI, REST API, Pandas, ETL, Spring Boot(Basic), PowerBI(Basic), Tableau(Basic)
Core Concepts: Data Structures and Algorithms, Problem Solving, Artificial Intelligence, Machine Learning, Neural Networks, API, Database