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Siddharth Kumar

Senior Software Engineer – Generative AI

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Portfolio: My Portfolio

PROFESSIONAL SUMMARY

Senior Software Engineer specializing in **Generative AI systems, LLM-powered agents**, and distributed data platforms with **4+ years of experience**. Experienced in designing and building **AI agent workflows**, developing **intelligent systems that enable users to interact with complex data and platforms using natural language**, and integrating agents with enterprise tools using **LangChain and Model Context Protocol (MCP)**. Also proficient in **Python, AWS, Apache Spark, ETL pipelines**. Known for building reliable AI-driven automation that reduces manual investigation, improves operational efficiency, and delivers scalable solutions in high-velocity engineering environments.

SKILLS

Languages	Python, Scala
GenAI & AI Systems	LLM Agents, LangChain, MCP (Model Context Protocol), Prompt Engineering, LLM Evaluation DeepEval, RAGAS, Langfuse
Backend & APIs	REST APIs, API Integration, Agent Orchestration, Tool Calling
Data & Processing	Apache Spark, Kafka, ETL Pipelines, Data Validation
Cloud & Infrastructure	AWS (S3, EMR, Lambda), Docker, Kubernetes
Databases	PostgreSQL, MySQL
DevOps & Monitoring	Git, Jenkins, TeamCity, Datadog, Splunk
Tools	JIRA, Confluence

WORK EXPERIENCE

Senior Software Engineer – Generative AI February 2025 — Present

PubMatic

Pune, Maharashtra

- Designed and built a **Deal Troubleshooting Agent** that answers complex deal-related queries using natural language, eliminating manual investigation through UI dashboards. Implemented agent orchestration using **LangChain**, integrated analytics APIs, and added observability with **Langfuse** for tracing, debugging, and performance monitoring.
- Developed a **Model Context Protocol (MCP) Server** supporting standardized **agent-to-agent communication** and tool discovery. Registered and integrated **20+ AI agents** and built an extension enabling seamless usage from AI clients such as **Claude Desktop, Cursor, and Windsurf**.
- Built a scalable **automation framework for AI agents** using **Pytest and DeepEval (GEval)**, implementing automated checks for hallucination detection, response correctness, completeness, and contextual relevance to ensure consistent and dependable LLM outputs.
- Implemented an automated **LLM-as-a-Judge monitoring system** generating daily evaluation digests that compare agent responses across runs to detect **behavior drift and hallucination patterns**, enabling proactive quality monitoring for production GenAI systems.

Performance Engineer

July 2022 — January 2025

ZS Associates

Pune, Maharashtra

- Led **end-to-end testing of data driven AI empowered application**, focusing primarily on backend(**Database, ETL Pipelines and API testing**) and managing the application quality.
- Enabled the team to scale the **application by 4x** by collaborating with the development team to **analyze query plans and provide actionable insights**, leading to **optimized performance and a significantly enhanced product experience for users**.

ACHIEVEMENT

- Received the **Innovation Award at PubMatic** for developing an automation framework for **agentic AI systems** and **MCP Server** delivering key innovations in project execution that were highly appreciated by product management.

EDUCATION

Computer Science and Engineering, *Lovely Professional University*
Class XII, *BSEB*

CGPA - 8.5
Percentage - 72.8

2018 – 2022
2016 – 2018