SONAM RAJA

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PROFESSIONAL SUMMARY

AI Engineer and .NET Developer with experience building Agentic AI systems, Retrieval-Augmented Generation (RAG) pipelines, and enterprise applications. Skilled in LangChain, LangGraph, Azure OpenAI, and microservices-based architectures. Proven ability to design intelligent automation systems, multi-agent workflows, and scalable cloud-native applications using .NET and Python.

TECHNICAL SKILLS

Languages: Python, C#, Java, SQL, JavaScript, TypeScript

AI / ML: LangChain, LangGraph, RAG, Transformers, NLP, HuggingFace, Prompt Engineering

Frameworks: ASP.NET Core, .NET, Entity Framework, Spring Boot, MVC, Web API

Cloud & DevOps: Azure, AWS, Docker, Kubernetes, CI/CD, Azure DevOps, GitHub Actions

Databases: SQL Server, PostgreSQL, MongoDB, Redis, Pinecone, ChromaDB, Weaviate

Security: OAuth 2.0, OpenID Connect, JWT, API Security, IAM

AI Platform: AAVA 1.0 | AAVA 2.0

PROFESSIONAL EXPERIENCE

Software Engineer – .NET & AI | TEKsystems (Client: HP Inc.) | Feb 2024 – Present

HP Smart Application (UWP)

- • Developed and maintained HP Smart printer management application using C#, .NET Framework, and MVVM architecture.
- • Implemented Agentic AI workflows using LangChain and LangGraph to automate printer troubleshooting and diagnostics.
- • Built NLP-based log analysis system using transformer models to detect anomalies and reduce incident resolution time by 60%.
- • Integrated Retrieval-Augmented Generation (RAG) pipelines with vector databases for intelligent documentation retrieval.

- collaborating with cross-functional teams like Firmware, Stratus , OneCloud ,Microsoft
- • Designed RESTful APIs and microservices for device synchronization and cloud communication.

Printer Support Application (PSA)

- • Built AI-powered print optimization features that automatically improve document quality and formatting.
- • Developed automated troubleshooting workflows using LangChain for printer configuration issues.
- • Implemented enterprise authentication using OAuth 2.0 and OpenID Connect.
- • Designed scalable backend services using .NET Core microservices architecture.

UDCA Telemetry Framework

- • Architected telemetry data collection framework for monitoring application usage across HP client applications.
- • Built secure data ingestion pipelines with encryption and compression for reliable cloud transmission.
- • Implemented anomaly detection models on telemetry data to identify abnormal system behavior.
- • Deployed services using Docker and Kubernetes with automated scaling.

KEY ACHIEVEMENTS

- • Designed and deployed RAG pipelines integrating vector databases with LLMs, improving contextual response accuracy by 85%.
- • Built multi-agent orchestration systems using LangChain and LangGraph for automated troubleshooting workflows.
- • Integrated Azure OpenAI services to develop intelligent document analysis and support automation tools.
- • Implemented CI/CD pipelines using Azure DevOps and GitHub Actions, reducing release cycles by 40%.

EDUCATION

Bachelor of Engineering – Computer Science | Techno Main Salt Lake | 2019 – 2023 | CGPA: 7.4

ADDITIONAL TOOLS

Visual Studio, VS Code, Postman, Swagger, Semantic Kernel, Ollama, OpenAI API