KISHORE KUMAR NARASIMMAN

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Software Engineer with 4+ years of experience in software development, distributed systems, large-scale web crawling, and LLMs. Experienced in developing scalable Java-based systems and autonomous web data extraction engines, with contributions to prompt-driven Retrieval-Augmented Generation (RAG) solutions involving keyword and semantic search using FAISS and Weaviate. Hands-on experience integrating LLMs with retrieval systems that leverage webpage content as the primary information source. Improved web extraction accuracy by 80% and reduced cross-data-center synchronization latency by 70%.

TECHNICAL SKILLS

Languages	Java, Python, SQL, JavaScript
Artificial Intelligence	Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), FAISS, Weaviate
Distributed Systems	Apache Kafka, Apache Ignite, Redis
Backend	Spring Boot, Apache Tomcat, NodeJS, ExpressJS, REST APIs,
Databases	PostgreSQL, MySQL
DevOps	Docker, HAProxy
Tools	Git, Mercurial(Hg), OAuth 2.0, WebSockets, Server-Sent Events(SSE)

PROFESSIONAL EXPERIENCE

Member Technical Staff — **June 2023 – Present**
Zoho Corporation, — *Chennai, India*

- Developed an autonomous web data extraction engine to handle complex and dynamic websites, improving extraction reliability and scalability while reducing manual intervention.
- Contributed to a prompt-driven **RAG** pipeline, combining **LLMs** with keyword and semantic search using **FAISS** and **Weaviate**, integrated with the web crawling system to retrieve relevant webpage content.
- Integrated LLM-powered **AI agents** and **ML**-driven modules to validate, classify, and verify extracted data, automating data quality checks and reducing manual intervention.
- Integrated the autonomous extraction engine with **Zoho Sheets**, enabling users to extract tabular structures directly from webpages and populate spreadsheets with a single click, eliminating manual data entry.
- Designed and implemented **cross-data-center synchronization** using **Apache Ignite** and **Apache Kafka**, processing **millions of records daily** while reducing synchronization latency by **70%**.

Project Trainee — **Nov 2022 – June 2023**
Zoho Corporation, — *Chennai, India*

- Engineered anti-bot mitigation mechanisms and adaptive crawling strategies to improve data extraction reliability, overcome anti-bot defenses, and increase crawl success rates across diverse websites.
- Refactored and modernized a legacy web crawling platform, enhancing code maintainability, performance, and scalability.

EDUCATION

Bachelor of Engineering (B.E) in Computer Science and Engineering — **Jul 2019 – Apr 2023**
K.Ramakrishnan College of Engineering — ***CGPA : 8.86 / 10***
Tiruchirapalli, Tamil Nadu