Karan Gehlod *Software Engineer*

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience in developing and enhancing software solutions using Java, Python, and .NET. Full-stack development, cloud integration, planning, and optimizing data pipelines. Experienced in building cloud-agnostic applications and improving the performance of ETL pipelines. Integrated Retrieval-Augmented Generation (RAG) models to increase query response accuracy by 20% and reduce search times. Utilized containerization technologies like Docker and Kubernetes to optimize Spark jobs, improving performance by 10% and cutting costs by 8%. Focused on writing efficient, maintainable code and driving innovation in software development projects.

PROFESSIONAL EXPERIENCE

Software Engineer August 2022 – present | Bengaluru, India
Johnson Controls
- Delivered 10+ high-priority projects on time, exceeding client expectations by 95%. Implementing innovative solutions and fostering cross-functional collaboration.
- Engineered robust applications with a focus on Python, Java, and GenAI; Accelerated system performance metrics by achieving a 12% increase in processing speed while cutting down development expenditures by an impressive 20%.
- Integrated robust coding practices within cross-functional teams using modern programming tools which led to the successful launch of ten major projects ahead of schedule while ensuring strict adherence to quality benchmarks.

Software Developer February 2021 – August 2022 | Gujarat, India
Capgemini India
- Prepared and deployed customized software solutions for data scientists, ensuring 99% data accuracy and streamlining workflows.
- Authored 4 Azure Functions to automate tasks and create scalable serverless applications. Ensured adherence to standardized ETL processes, contributing to data quality and efficiency of 99%.
- Successfully managed 4 projects from inception to production, showcasing the ability to deliver complete solutions with a team of 6 members.

PROJECTS

ChatBotCcompanion November 2024 – present
Johnson Control Inc
- Proposed a chatbot API achieving 90% accuracy in indoor location search by leveraging LLMs, vector databases, and SQL.
- Processed **100k+ unstructured inputs** to extract actionable data using NLP techniques.
- Designed and advised the system architecture end-to-end, reducing query resolution time by **40%**.
- Delivered a demo showcasing enhanced navigation for large buildings, improving user satisfaction scores by **25%**.

Documents Insight March 2024 – August 2024
Johnson Controls Inc.
- Integrated a Retrieval-Augmented Generation (RAG) model with a chatbot, improving query response speed and accuracy by 20% through real-time document retrieval and delivering precise, context-aware answers.

Observability of logs May 2024 – August 2024
Johnson Controls Inc.
- Optimized log storage and utilized Logz.io to resolve engineering and SRE issues, achieving a 30% reduction in subscription costs and minimizing overall resource effort through strategic log management practices.

Database Evaluation December 2023 – March 2024
Johnson Controls Inc
- Analyzed performance metrics for ClickHouse, TimescaleDB, and MSSQL databases to identify execution time inefficiencies; compiled comprehensive reports detailing findings that enhanced query speed by an average of 20%.
- Oversaw a migration that reduced costs by 23% and boosted system performance additional by 38%.

Spark Job Optimization and Modernization September 2022 – March 2023
Johnson Control Inc
- Enabled cloud-agnostic execution of real-time and batch-processing Spark jobs through containerization, migrating from Spark 2.x and Java 8 to Spark 3.3 and Java 11, resulting in a 10% increase in job performance.
- Successfully defined Argo CD for streamlined deployment on AKS, replacing Azure HDInsights with a more cost-effective and scalable solution, reducing total costs by 8%.

Open Blue Bridge December 2022 – March 2023
Johnson Control Inc
- Investigated the root cause of extended installation duration at client sites by analyzing technician experiences and conducting a case study with 80 onsite engineers.
- Resulting in a 90% reduction in deployment time—from 30 days to 3 days.

File Processing April 2021 – August 2022
Terumo BCT (USA)
- Achieved 85% code coverage within project deadlines by implementing a test-driven development (TDD) approach alongside rigorous unit testing practices that ensured functionality across all developed features.

EDUCATION

Bachelors of Engineering July 2016 – May 2020 | Indore, India
Shri G S Institute of Technology and Science

SKILLS

Cloud, Database, Kubernetes, Docker, GenAI, Data Warehouse, Kafka, REST API's, VS Code, Maven, Flask, DBMS, postman, Redpanda, Leadership, Team work, Mock Test, Linux, ETL, TDD, SDLC, Requirements Gathering, Technical Analysis, AI Agents, Snowflake, Azure Synapse, microservices, OOPs, Cloud Storage, Data, Apache Spark, Azure, AWS, Airflow, Terraform, Apche Iceberg, Postgres

PROGRAMMING LANGUAGES

Java • Python • C# • SQL • NoSQL

CERTIFICATES

Az-900 Azure Fundamentals • Databricks Lakehouse Fundamentals •
Oracle Cloud Infrastructure 2024 Generative AI Certified Professional •
Java Programming: Solving Problems with Software • Python Data Structures •
Source Systems, Data Ingestion, and Pipelines • AI Agentic Design Patterns with AutoGen!

PUBLICATIONS

Wide-band meander line MIMO antenna for wireless applications December 2018
Leeladhar Malviya, Karan Gehlod, and Ashish Shakya

5.8 GHz Wlan MIMO Antenna with Power Divider Arms November 2018
Leeladhar Malviya, Ashish Shakya, Karan Gehlod

AWARDS

Rising Star June 2021
Capgemini India
Recognition for outstanding performance on a client project.