ADITYA SAIRAM

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PROFESSIONAL SUMMARY

Software Engineer proficient in the full software development lifecycle, from system design to production deployment. Leverages a strong foundation in **Java**, **C#**, and **Cloud Infrastructure** to build resilient, user-focused applications. Experienced in modernizing legacy systems, integrating **AI/ML workflows**, and implementing rigorous **CI/CD** practices. Committed to writing clean, maintainable code and delivering secure, high-availability solutions in fast-paced environments.

EXPERIENCE

SOFTWARE ENGINEER | Robotics Technologies LLC | Troy, MI | Mar 2025 – Present

- Built a responsive full-stack application using **.NET Core (C#)** and **React.js**, optimizing API payloads to reduce page load latency by **30%**.
- Engineered a real-time ingestion pipeline using **Apache Kafka** and **Azure Functions**, processing telemetry into **SQL Server** to cut analytics query time by **35%**.
- Integrated **GPT-4o** and **Gemini** models via **Python REST APIs**, improving semantic search accuracy by **30%** using vector embeddings.
- Deployed containerized microservices on **Azure Kubernetes Service (AKS)**, achieving **99.9% uptime** and reducing deployment cycles by **40%**.
- Designed a data sync service between **Cosmos DB** and **SQL Server**, ensuring zero data loss and data consistency across distributed systems.

RESEARCH ENGINEER | Cleveland State University | Cleveland, OH | Aug 2023 – Dec 2024

- Engineered a distributed data pipeline using **PySpark** on **Azure Data Lake** to process **100GB+** of unstructured text, reducing ML data preparation time by **40%**.
- Developed a scalable **Python REST API** to expose AI insights, optimizing **SQL** queries and JSON serialization to cut response latency by **25%**.
- Built a semantic search engine using **Azure Cognitive Search** and **Vector Embeddings**, integrating **Cosmos DB** to improve document retrieval accuracy by **30%**.
- Implemented context-aware chatbot workflows using **Semantic Kernel** and **LLMs (GPT-4o)**, orchestrating memory management for dynamic user interactions.

SOFTWARE ENGINEER | Amazon | Chennai, India | Jun 2021 – Dec 2022

- Developed scalable microservices using **Java Spring Boot** and **AWS Lambda**, ensuring global availability for Amazon's Multi-Region Data Catalog.
- Optimized **DynamoDB** query patterns and Java garbage collection tuning, reducing backend API latency by **40%** under high load.
- Implemented automated validation logic in **Java**, ensuring data integrity and consistency across millions of distributed catalog records.
- Built real-time operational dashboards using **CloudWatch**, reducing incident resolution time (MTTR) for critical backend services.

SOFTWARE ENGINEER | Pyramid Soft Solution | Hyderabad, India | May 2019 – May 2021

- Designed a backend recommendation engine using **Java** and **REST APIs**, generating real-time personalized suggestions for **10,000+** users.
- Integrated **ElasticSearch** to implement fuzzy matching logic, improving search result accuracy and reducing query response times to sub-second.
- Developed automated data processing pipelines using **Python** and **Pandas**, streamlining feature engineering for internal analytics dashboards.

EDUCATION

Master of Science in Computer Science | Cleveland State University, Ohio, USA
Bachelor of Technology in Computer Science | JNTUH, India

TECHNICAL SKILLS

- **Languages:** Python, Java, C#, SQL, TypeScript, JavaScript
- **Frameworks:** Spring Boot, .NET Core, React.js, Node.js, PySpark
- **Data & AI:** Azure AI, Vertex AI, Apache Kafka, Pandas
- **Cloud & Infra:** Azure (Core), AWS, Docker, Kubernetes, CI/CD
- **Databases:** SQL Server, PostgreSQL, Azure Cosmos DB, MongoDB, ElasticSearch

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate
- AWS Certified Cloud Practitioner
- Google Cloud Professional Database Engineer