

## PROFESSIONAL SUMMARY

Software Engineer specializing in distributed cloud computing and data-intensive backend systems. Leverages expertise in Python, SQL, and C# to design fault-tolerant microservices and high-throughput ETL pipelines using Kafka and Spark. Experienced in optimizing database architecture on AWS and Azure, reducing query latency, and integrating advanced AI models to solve complex enterprise data challenges.

## EXPERIENCE

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

- Developed a Full Stack AI application using **React** and **.NET Core**, serving 100K+ users with real-time responsiveness.
- Architected a scalable ingestion system using **Apache Kafka**, streaming real-time user telemetry from frontend clients into **Cosmos DB** for storage.
- Designed and implemented automated ETL jobs to transform unstructured JSON data into relational schemas in **SQL Server**, enabling complex analytics querying.
- Integrated **Azure OpenAI (GPT-4o)** via REST APIs to power a semantic search engine, utilizing vector embeddings to improve data retrieval accuracy by 30%.
- Deployed microservices on Azure, utilizing Container Apps and Application Insights for monitoring system health and API latency.

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

- Built a distributed data processing pipeline using **PySpark** on **Azure Data Lake**, cleaning and transforming 100GB+ of raw text data for downstream ML training.
- Developed a vector-based information retrieval system using **Azure Cognitive Search**, enabling semantic querying of internal documentation.
- Exposed data insights to a web interface via high-performance Python APIs, handling complex SQL queries and JSON serialization.
- Engineered the state management logic for an LLM-powered chatbot, utilizing **Semantic Kernel** to orchestrate memory and context retention.

**SOFTWARE ENGINEER** | **Amazon** | Chennai, India | June 2021 – Dec 2022

- Designed a Multi-Region Data Catalog using **AWS Lambda** and **DynamoDB**, ensuring 99.9% data availability and consistency across global marketplaces.
- Optimized catalog retrieval logic and database indexing strategies, reducing query latency by 40% for high-traffic vendor portals.
- Automated SQL scripts and validation rules to detect catalog anomalies, resolving data integrity issues for millions of records.
- Built React-based dashboards to visualize real-time vendor session data, empowering the operations team with actionable operational metrics.

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

- Developed interactive analytics dashboards using **JavaScript** and **Chart.js**, enabling stakeholders to visualize ML model performance metrics.
- Deployed a collaborative filtering engine (TensorFlow) that processed user behavior logs to generate personalized content suggestions.
- Implemented **ElasticSearch** with custom tokenizers and BM25 scoring, improving search relevance for a dataset of 100K+ records.
- Built Python-based data cleaning scripts (Pandas) to automate feature engineering, reducing manual data preparation time by 60%.

## EDUCATION

Master of Science in Computer Science | Cleveland State University, Ohio, USA

Bachelor of Technology in Computer Science | JNTUH, India

## TECHNICAL SKILLS

- **Languages & Web:** C#, Python, SQL, JavaScript, TypeScript, React.js, Node.js, SignalR.
- **Data & Databases:** PySpark, Kafka, SQL Server, Cosmos DB, ETL Pipelines.
- **Cloud & AI:** Azure (AI, Functions), AWS (Lambda, DynamoDB), Google Cloud, Vertex AI, Docker, Kubernetes.

## CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate
- Google Cloud Professional Database Engineer
- Oracle Certified Professional: SQL & PL/SQL Developer