

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