

# Teja Swaroop Sayya

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## Education

### University of North Carolina

May 2025

Masters of Science in Computer Science - AI/ML

### Certifications

- MongoDB Certified Associate Developer — AWS Generative AI(Badge)

## Experience

### Software Developer - CVS Health

March 2025 – Present

- In Pharmacy Care Platform Team, Working on Spring Boot (Microservices architecture) for Pharmacy Management systems, leveraging JUnit/Mockito for TDD and Agile (Jira) workflows. Goal is to reduce post-deployment defects while accelerating feature delivery cycles.
- Implemented multithreaded APIs to retrieve and display real-time patient information, significantly improving data retrieval efficiency.
- Optimized database schemas to ensure scalable and efficient management of patient information.
- Planned and currently working on migration of monolithic prescription processing systems to Spring Cloud, containerizing components with Docker.
- Currently refactoring the entire Backend Code based on the updated new DB schema and implemented CACHE for both UI and backend.

### Software Engineer - Verizon(Client) - Infosys

Oct 2022 – Dec 2023

- Worked in the Network Orchestration Team using Spring WebFlux and TMF921 APIs to develop 5G network slicing solutions that automate resource allocation and drive dynamic connectivity.
- Transformed legacy Java EE systems into modern Spring Boot microservices, dramatically enhancing scalability and deployment efficiency for critical network applications.
- Orchestrated containerized network functions on Kubernetes for Verizon's 5G/IoT infrastructure, streamlining the deployment and management of essential communication services.
- Built robust RESTful APIs with Java 11+ and Spring Boot to support voice and data services, enabling seamless real-time communication across the network.
- Designed Kafka-based workflows to handle network alarms and IoT telemetry with fault tolerance, ensuring reliable monitoring and rapid response.
- Optimized database integrations by leveraging JPA/Hibernate with Oracle and PostgreSQL, boosting performance for high-volume transactional systems.

### Software Engineer - CVS Health(Client) - Infosys

May 2021 – Oct 2022

- In Healthcare Data Engineering Team worked on optimizing Hadoop-based ETL pipelines (Hive, Sqoop) and clusters (HDFS, YARN) for pharmacy claims and patient data, boosting report efficiency and cluster stability.
- Automated data ingestion and validation workflows using Java/Spring Boot and Unix shell scripts, ensuring HIPAA-compliant processing of sensitive healthcare data.
- Migrated legacy on-premise datasets to Google BigQuery by designing partitioned tables and optimizing SQL queries to streamline claims analytics.
- Collaborated with clinical analysts to implement statistical analyses (regression models, outlier detection) and preprocess clinical notes with Spark, enabling care gap analysis for high-risk patients.
- Developed Spring Boot APIs to integrate Tableau Prep with EHR systems, simplifying access to patient utilization data for internal analysts.

### System Engineer - Infosys

Jan 2021 – May 2021

- Collaborated with the Infosys Agile DevOps team to architect and deploy CI/CD pipelines in an open-source environment, streamlining deployments and reducing release cycles.
- Managed Oracle and Microsoft SQL Server databases by creating and maintaining databases, users, roles, and security policies, ensuring optimal performance and data integrity.

## Skills

**Programming** Data Structures and Algorithms (DSA), Java, Python, JavaScript

**Web Frameworks** Spring Boot, JPA/Hibernate, FastAPI, Next.js, REST APIs, Microservices, Kafka

**AI/ML Libraries** TensorFlow/Keras, PyTorch, Hugging Face, LangChain, LLM, RAG

**Database/Cloud** MySQL, Hadoop, HDFS, PySpark, MongoDB, PostgreSQL, AWS, GCP

**Developer Tools** Docker, Git, Google Colab, Anaconda, CUDA, AWS, MySQL, PostgreSQL

## Projects & Research

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### **Chat with Teja Sayya — RAG(Retrieval Augmented Generation): [Link](#)**

- Built a RAG-based AI agent with LLM functionality and custom data, Its like my Personal BOT, you can Talk to it. Give a try.

### **Real-Time Chat Application — Spring Boot, Web Sockets + React: [Link](#), [Demo](#)**

- developed a real-time chat application designed to facilitate seamless communication among users. The application leverages Spring Boot for the backend, React for the frontend, and WebSockets for real-time data transmission. This setup ensures efficient and instant messaging capabilities.

### **MakeItTalk — Deep Learning models: [Link](#)**

- Engineered a deep learning pipeline combining CNNs, RNNs, and GANs to generate more realistic facial animations.

### **Connect4 with AI — Alpha-Beta Pruning Search Algorithm: [Link](#)**

- Developed an AI-powered Connect4 game using the Alpha-Beta Pruning algorithm for strategic gameplay.

### **Alzheimer's Disease Analysis — Machine Learning: [Link](#)**

- developed a machine learning model to analyze and predict Alzheimer's Disease. The goal was to leverage machine learning techniques to assist in early detection and diagnosis, potentially improving patient outcomes.

### **Photo App — ReactJs: [Link](#)**

- Developed a photo sharing application using React, focusing on creating a user-friendly and responsive interface. The project emphasizes key functionalities such as user authentication, image upload, and display, while utilizing modern technologies and best practices in software development.

### **AI-Powered Agreement Risk Analyzer — Gemini AI: [Link](#)**

- SaaS Tool to extract key clauses, assess risks, and simplify document analysis with cutting-edge AI

### **Pixo.ai — Text 2 Image: [Link](#)**

- SaaS Tool to extract key clauses, assess risks, and simplify document analysis with cutting-edge AI