Teja

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EXPERIENCE

CVS Health USA

Software Engineer *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.

Verizon Client

Software Engineer *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.

CVS Health Client

Software Developer *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.

Infosys

System Engineer *Jan 2020 – 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.
- Supported database maintenance and CI/CD workflows by automating routine tasks like backups and version control, ensuring smoother deployments and system reliability.

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

EDUCATION

University of North Carolina at Charlotte

Masters of Science in Computer Science - AI/ML   *Jan 2024 - May 2025*

PROJECTS & RESEARCH

Chat with Teja Sayya:

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   *Code — 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 AI Tool to convert Text to Image