Teja S

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Software Engineer at CVS Health

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Experience

- **CVS Health** — New York, NY
  Software Engineer — *Mar 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.
  - Implementing real-time patient data retrieval by building multithreaded APIs using Java concurrency features such as CompletableFuture and ExecutorService to fetch patient demographics, prescriptions, and insurance details in parallel.
  - Optimizing patient information management by restructuring database schemas, introducing composite indexes and partitioning strategies, and refining Hibernate/JPA entity mappings with optimized SQL queries
  - Currently refactoring the entire Backend Code based on the updated new DB schema and implemented CACHE for both UI and backend.
- **Verizon - Infosys** — Hyd Ind
  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, by applying Strangler Fig pattern, domain-driven design, database decoupling, and event-driven microservices on Kubernetes.
  - 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 - Infosys** — Hyd, Ind
  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.
  - 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.

Programming Skills

Programming:	Data Structures and Algorithms (DSA), Java, Python, JavaScript/TypeScript
Frameworks:	Spring Boot, Spring WebFlux, FastAPI, Next.js, Node.js, React, Redux
AI/ML & LLMs:	Prompt Engineering, LLM/RAG, LangChain, Deep/Reinforcement Learning, Chroma DB, MCP Servers, ADK
Database:	MySQL, MongoDB, PostgreSQL, Redis, DynamoDB
Cloud & DevOps:	Docker, Kubernetes, Apache Kafka, Git, GCP, AWS, CI/CD(Github Actions, Jenkins), Google PubSub
Monitoring:	Grafana, Splunk, Dynatrace, Prometheus

Education

- **University of North Carolina at Charlotte** — Charlotte, NC
  Master of Science in Computer Science(AI/ML); GPA: 3.8 — *Jan. 2024 – May. 2025*

Projects

Chat with me — RAG (Retrieval Augmented Generation) [Link]
Built a RAG-based AI agent with LLM functionality and custom data. Acts like a personal bot that you can talk to.

Real-Time Chat Application — Spring Boot, WebSockets + React [Link], [Demo]
Developed a real-time chat application with Spring Boot (backend), React (frontend), and WebSockets for real-time messaging.

MakeItTalk — Deep Learning Models [Link]
Engineered a deep learning pipeline combining CNNs, RNNs, and GANs for realistic facial animations.

Connect4 with AI — Alpha-Beta Pruning Search Algorithm [Link]
Developed an AI-powered Connect4 game using Alpha-Beta Pruning for strategic gameplay.

Alzheimer's Disease Analysis — Machine Learning [Link]
Built an ML model to predict Alzheimer's Disease for early detection and diagnosis.

AI-Powered Agreement Risk Analyzer — Gemini AI: [Link]
SaaS Tool to extract key clauses, assess risks, and simplify document analysis with cutting-edge AI