

Teja Swaroop Sayya

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EDUCATION

Masters of Science, Computer Science

May 2025

University of North Carolina at Charlotte | GPA: 4.0/4.0

Bachelors of Technology, Computer Science

June 2021

Jawaharlal Nehru Technological University | CGPA: 9/10

PROFESSIONAL EXPERIENCE

Open Source Developer - GDG

June 2023 - Present

- Collaborating on backend improvements for Rocket.Chat and FitCheck App, optimizing database queries and streamlining API integrations.
- Contributed to the TensorFlow Addons repository, implementing a custom loss function and fixing compatibility issues with TensorFlow.

Software Engineer, Liberty Global(Client) - Infosys

Oct 2022 – Dec 2023

- Worked in Horizon Platform Engineering Team, Developed microservices (Spring Boot) for real-time content delivery (Netflix/Spotify integrations) and billing systems.
- Modernized legacy monoliths to Spring Cloud architectures for scalable, cloud-native infrastructure.
- Engineered Spring Batch workflows to process millions of daily billing events across European markets.
- Designed RESTful APIs (Spring Boot 3.x) to streamline integrations with third-party services and internal systems.
- Deployed AWS services using Terraform for optimized cloud resource management.
- Designed TMF921-compliant reactive APIs (Spring WebFlux) for 5G network orchestration and automation.

Software Engineer, Verizon(Client) - Infosys

May 2021 – Oct 2022

- On the Network Orchestration Team, developed 5G network slicing solutions using Spring WebFlux/TMF921 APIs to dynamically allocate network resources (bandwidth, latency) based on real-time demand.
- Migrated monolithic Java EE applications to Spring Boot microservices, adopting cloud-native design patterns (e.g., circuit breakers, API gateways) for improved scalability. Implemented CI/CD pipelines to streamline deployment processes.
- Orchestrated Kubernetes-based CNFs for Verizon's 5G/IoT infrastructure, improving deployment agility by 30%.
- Developed low-latency RESTful APIs (Java 11, Spring Boot) for real-time voice/data routing, leveraging asynchronous processing and connection pooling to handle high-throughput traffic.
- Designed Kafka-based workflows for handling network alarms and IoT telemetry with fault tolerance.
- Optimized database integrations (Oracle/PostgreSQL) using JPA/Hibernate for high-volume transactional systems.

TECHNICAL SKILLS

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|-------------------------|--|
| Programming: | Data Structures and Algorithms (DSA), Java, Python, JavaScript/TypeScript |
| 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, MongoDB, MySQL, AWS, PostgreSQL |
| Developer Tools: | Docker, Git, Google Colab, Anaconda, CUDA |

PROJECTS & RESEARCH

- Chat with Teja Sayya | RAG(Retrieval Augmented Generation):** [link](#)
Built a RAG-based AI agent using LLM functionality and custom data, enabling scalable and context-aware conversational AI Agent.
- Connect4 with AI | Alpha-Beta Pruning Search Algorithm:** [GitHub Repository](#)
Developed an AI-powered Connect Four game using Python and Pygame with an interactive GUI. Implemented various algorithms like Minimax and Alpha-Beta Pruning to create challenging AI opponents. Skills: Python programming, AI algorithms, and Search Algorithms via games.
- Alzheimer's Disease Analysis | Machine Learning:** [Github Repository](#)
Researched ML models to analyze the impact of various factors on Alzheimer's risk using Linear Regression, Random Forest, SVMs, and XGBoost.
- MakeltTalk | Deep Learning models:** [Hugging face spaces](#)
On research paper "MakeltTalk". Converts an Image & Audio file into Facial Animation Video. Used Convolution Neural Networks(CNNs), Recurrent Neural Networks (RNNs), Generative Adversarial Networks (GANs), LSTM (Long Short-Term Memory) networks
- Photo App | ReactJs:** [link](#)
Developed a scalable React-based photo sharing application with MongoDB as the database and Material UI for the frontend.
- Real-Time Chat Application | Spring Boot, Web Sockets + React:** [GitHub Repository](#)
Developed a real-time chat application using Spring Boot, WebSockets, and React, enabling users to join chat rooms via unique room IDs and communicate seamlessly. Integrated MongoDB for data persistence and deployed containerized microservices using Docker.
- 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