

# Teja Kavikondala

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## EDUCATION

**Master of Science in Computer Science** | University of Illinois at Chicago, IL. | GPA 3.9/4

May 2025

**Coursework:** Algorithms, Database Systems, Computer Vision, UX Research, Computer System Security, ML on Graphs, NLP, Software Engineering.

**Bachelor of Technology Electronics and Communication Engineering** | JNTU, India

2020

## TECHNICAL SKILLS

**Programming & Scripting:** Java, Python, JavaScript (ES6+), TypeScript, C#, Go, C/C++, SQL, Bash.

**Frameworks and Tools:** React, Redux, Angular, Webpack, Material UI, HTML5, CSS3, SCSS, jQuery, Spring MVC, Spring Data JPA, Hibernate, Spring Security, Spring Cloud (Eureka, Gateway, Config Server, OpenFeign), Django, Flask, Node.js, Express.js, .NET, Kafka, RabbitMQ, Nginx, OAuth 2.0, JWT, Selenium, Cucumber, JUnit.

**Databases:** MySQL, PostgreSQL, MongoDB, Redis.

**DevOps:** Git, Linux, Docker, Kubernetes, Jenkins, Maven, Gradle, GitHub Actions, Prometheus, Grafana, Terraform.

**Cloud:** AWS (EC2, EKS, ECR, RDS, S3, CloudWatch, IAM, VPC, Elastic Load Balancing, Lambda), GCP (Cloud Functions, Compute Engine, Vertex AI), Microsoft Azure (App Service, Azure Storage).

**AI/ML & Data:** Numpy, Pandas, Matplotlib, Keras, TensorFlow, SpaCy, Hugging Face Transformers, NLTK, OpenCV, PyTorch, Scikit-Learn, NetworkX, Apache Spark, Tableau, Power BI, LLMs, LLaMA, RAG, LLM Workflows, Prompt Engineering, LangChain, OpenAI API, GitHub Copilot.

**Methodologies & Practices:** Agile Scrum, SDLC, TDD, BDD, IaC, JIRA, Generative AI, Prompt Engineering, MLOps.

## PROFESSIONAL EXPERIENCE

**Software Engineer** | *CITI (Contract), TX, United States.*

Aug 2025 – Present

- Created custom, accessible **Material-UI** components that manage complex state using **React Hooks**, enhancing user engagement by 25%.
- Enhanced monolithic RESTful services into modular **Spring MVC** components, improving system maintainability and scalability.
- Implemented a Redis caching layer using **Springboot**, reducing read latency by 70% for customer account lookups.
- Containerized applications with Docker and orchestrated workloads on **Amazon EKS**, achieving deployment time from 1 hour to 10 minutes.
- Collaborate with designers, product managers, and QA engineers to deliver high-quality, secure solutions.

**Graduate Research Assistant** | *UIC, Chicago, United States*

Nov 2023 – May 2025

- Developed predictive models using **Python (scikit-learn, TensorFlow, PyTorch)** to analyze patient data, improving **30%** prediction accuracy.
- Implemented ML algorithms (**Random Forest, XGBoost, K-means clustering**) on clinical datasets containing **10,000+** patient records.
- Built deep learning models using **Keras and TensorFlow** for medical image analysis and diagnostic classification tasks.
- Built ETL pipelines using **Python (pandas, NumPy)**, **SQL**, and **Apache Spark** to clean and preprocess healthcare data for clinical analytics.
- Contributed to GenAI-powered clinical documentation tools using **OpenAI API** and **LangChain** to automate medical report generation.
- Created interactive dashboards and visualizations using **Tableau** and **Power BI** to communicate findings to clinical stakeholders.

**Software Engineer Intern** | *Apoorva Corporation, Colorado, United States*

May 2024 – Aug 2024

- Increased SaaS application responsiveness by 25% by leveraging **React's Virtual DOM** and **Redux**-based state management system.
- Engineered high-performance **Django** RESTful APIs, to handle concurrent requests and reduced data processing time by 45%.
- Secured SaaS APIs with Single Sign-On (SSO) solution using **OAuth 2.0** within Django REST Framework.
- Leveraged GitHub Copilot to accelerate code refactoring, and debugging across full-stack applications.

**Software Engineer** | *Demy Software Solutions, India.*

Aug 2022 – Jul 2023

- Incorporated lazy loading components using **React.js & JavaScript (ES6+)** reducing initial page load time from 4s to 1s.
- Developed a robust server-side payment gateway using **Node.js/Express.js**, securely process 2000+ credit card transactions monthly.
- Implemented a flexible **NoSQL** database schema in **MongoDB** to store diverse product and user information, improving data retrieval by 30%.
- Containerized and Deployed applications on **AWS EC2** using Docker and **S3** bucket to serve static React files achieving **99.9%** uptime.
- Actively participated in peer code reviews providing constructive feedback and suggestions improving overall code quality.

**Software Engineer** | *Cognizant Technology Solutions, India*

Nov 2020 – Aug 2022

- Built scalable microservices using **Java 17, Spring Boot, Hibernate**, handling 500K+ transactions/day with sub-100ms response latency.
- Secured sensitive online banking endpoints by integrating **JWT authentication** and **Spring Security** with **RESTful APIs**.
- Implemented asynchronous event driven workflows using **Apache Kafka & Spring Cloud Stream**, reducing queue backlog by 40%.
- Deployed real-time API monitoring and alerting with **Prometheus, Grafana, and AWS CloudWatch** enabling proactive failure response.
- Integrated build validations and rollback strategies to **CI/CD** pipelines with **Jenkins and Maven**, reducing release cycle time by 50%.
- Provisioned scalable and reliable cloud infrastructure using **Terraform** for IaC deployments, reducing deployment time by 60%.
- Collaborated with cross-functional teams to enhance Agile execution and tracking using **JIRA**.

**Software Engineer Intern** | *Cognizant Technology Solutions, India*

Jan 2020 – May 2020

- Developed SPAs using **Angular-RxJS & Observables, Typescript** and **Webpack** for real-time account and transaction updates.
- Devised automation scripts using **BDD (Cucumber)** and **TDD (Selenium, Java)** to validate banking workflows reaching 80% code coverage.
- Documented code functionality and workflows to improve maintainability and onboarding.

## PROJECTS

**SpringNova** | **Spring Boot, Spring Cloud (Eureka, Gateway, Config Server, OpenFeign), Java 17, Gradle, OpenAPI/Swagger, WebClient**

A Distributed System that demonstrates service discovery, centralized configuration, and API routing. It includes multiple microservices for user and department management, interconnected through a service registry and API gateway, showcasing seamless inter-service communication and scalability.

**Real-Time Notification System** | **Reactjs, Nodejs, PostgreSQL, Redis, RabbitMQ, Docker, Azure.**

Deployed a highly scalable, real-time notification system using React.js, WebSockets, Redis, RabbitMQ pub-sub and Azure for efficient session delivery.

**Hierarchical Attention for Dynamic Graph Learning** | **Transformers, GNNs, PyTorch, NumPy, NetworkX, Scikit-learn.**

Enabled scalable modeling of time-evolving networks, achieving state-of-the-art results on multiple benchmarks with up to 1.5% performance gains.

**Controlled Data Augmentation** | **LLaMA-7B, HuggingFaceTransformers, PyTorch, spaCy, Sentence-Transformers, GCP.**

Developed a CDA framework using LLaMA-7B to improve dataset richness and model generalization in low-resource NLP settings. Achieved a 17% accuracy boost and reduced perplexity and deployed the model on GCP platform.