

# LALITH SAGAR KAMBALA

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## SUMMARY

Full Stack Engineer skilled in React, Next.js, and TypeScript with experience building scalable AI solutions. Focused on learning and volunteering to create impactful tech while advancing professionally.

## EDUCATION

**Master of Science:** Computer Science Aug 2023 to May 2025  
**University of Central Missouri - Lee's Summit, MO – GPA:** 3.55/4.00

## EXPERIENCE

**Founding Software Engineer** Sep 2025 to Current  
**Todaiyo.ai – United States**

- Leading full-stack web application development, including architecture design, coding, integrations, deployment, and hosting, building a 0→1 product with CI/CD pipelines and Git-based version control to ensure a smooth development workflow from concept to launch.
- Delivered a responsive React front end with a scalable Node.js back end and Supabase real-time database, integrating AI APIs to enhance user interactions. Developed OpenAI API quadrails to cut API costs by 25% and implemented image-processing pipelines using OpenAI image generation models for faster, reliable in-app image creation.
- Implemented GoogleAnalytics and GoogleTagManager to track engagement, retention, and feature usage, analyzing over 75% of events to optimize product performance and marketing insights improving user engagement metrics

**AI Full Stack Engineer** Sep 2025 to Current  
**Maple AI – Canada**

- Developing a summarizer and AI shopping platform (GenieShop) that reduces user search time across multiple websites by 40%, leveraging Agentic AI implementations for the e-commerce domain.
- Building the platform using React, TypeScript, and Python with AWS deployment and Docker containerization, integrating Gemini API for LLM calls. Leveraged DuckDuckGo and web scraping to collect product data, implemented CI/CD pipelines for automated deployment, and performed unit testing following Agile practices.

**Full Stack Software Engineer** Jul 2025 to Oct 2025  
**IEJL – United States**

- Engineering full-stack web applications and internal tools using Next.js, TypeScript, and Tailwind CSS, improving UI load times by 30% and delivering scalable backend solutions with Supabase-powered real-time database operations, boosting data sync efficiency by 25%.
- Partnered with product managers, UI/UX designers, and cross-functional teams in Agile sprints, accelerating feature delivery and reducing iteration cycles by 35%.
- Implemented Docker containerization and CI/CD pipelines for streamlined development and deployment, leveraging AWS cloud infrastructure to achieve 40% faster deployment cycles and 30% improved system reliability.

**Web Development Intern** Sep 2022 to Nov 2022  
**Coincent Technologies – India**

- Created a user-friendly Job Portal Management System with optimized MySQL queries and modular front-end components, reducing job posting and record processing time by 30% and enabling smoother applicant navigation.
- Enhanced site accessibility through mobile-first design principles and cross-browser compatibility testing, improving accessibility for 95% of users and lowering bounce rates by 20%.
- Debugged and troubleshooted system issues using automated error monitoring and rapid resolution workflows, maintaining 99% uptime and ensuring uninterrupted user access during high-traffic periods.

## CORE COMPETENCIES

- Programming languages: Python, Java, C#, MySQL, HTML, Tailwind CSS, JavaScript, TypeScript
- Skills: Data Structures & Algorithms, UI/UX designing, Data Modelling, Mining, Data Visualization, AI, LangChain, Machine Learning
- Tech: VScode, Jupyter, Colab, Linux, Git, Jira, Selenium, Junit Testing, GenAI, Vector database, Spring Boot, CursorAI
- Frameworks: ReactJS, Flask, TensorFlow, scikit-learn, Pandas, Keras, Matplotlib, Seaborn, Tableau, MongoDB
- Coursework: Relational Database, Cloud Computing, Operating Systems, SDLC & Agile Methodologies (Scrum), Adv Software Engineering
- Soft Skills: Teamwork and collaboration, Communication skills

## ACHIEVEMENTS & CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25)
- Oracle Cloud Infrastructure 2024 Generative AI Professional (1Z0-1127-24)
- Introduction to Large Language Models (LLM) by Google Cloud
- Accenture North America Data Science and Visualization Job Simulation on Forage

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## PROJECTS

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### Article Semantic Search using LLM's Aug 2025

- Designed a financial news research platform leveraging LangChain's Unstructured URL Loader and OpenAI embeddings for precise content indexing and retrieval.
- Deployed FAISS-based semantic search with embedding vector storage, and built an interactive Streamlit app allowing users to process URLs and obtain contextually accurate answers from a large language model.

### Gemini API Clone May 2025 - Jun 2025

- Crafted a responsive Gemini Clone web application using HTML, CSS, JavaScript, JSX, and React.js, focusing on modular components and seamless user interaction.
- Integrated RESTful APIs and asynchronous JavaScript to enable instant data updates and build scalable, production-ready interfaces

### Brain Tumor Detection Using Deep Learning Jan 2023 - Apr 2023

- Constructed a CNN model with Conv2D, Batch Normalization, MaxPooling, Dropout, and Dense layers using ReLU activation to classify MRI scans with 94% accuracy, enhancing feature extraction and reducing overfitting by 15%.
- Automated early tumor detection workflows, cutting diagnosis time by up to 40% and improving patient care through scalable, real-time image analysis.

### Blockchain project on Property Management System Aug 2022 - Dec 2022

- Built **Block Wizz**, a decentralized blockchain-based tax payment solution that processed 500+ transactions with 100% transparency, ensuring tamper-proof records and full auditability across the network.
- Incorporated SHA-256 hashing to securely chain payment histories, reducing fraudulent receipts and duplicate payments by 95% while enabling real-time, verifiable transaction tracking.