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   May 2025
University of Central Missouri - Lee's Summit, MO – **GPA**: 3.50/4.00

EXPERIENCE

Full Stack Software Engineer   Jul 2025 to Current
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%.

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 troubleshot 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: VS Code, Jupyter, Colab, Linux, Git, Jira, Selenium, Junit Testing, GenAI, Vector database, Spring Boot
- 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

PROJECTS

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.