

# LALITH SAGAR KAMBALA

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## EDUCATION

### University of Central Missouri, United States

Aug 2023 - May 2025

Master's in Computer Science | GPA: 3.50/4.00

### Anil Neerukonda Institute of Technology & Sciences (ANITS)

Sep 2019 - Apr 2023

Bachelor of Technology in Computer Science and Engineering | GPA: 8.79/10

## CORE COMPETENCIES

- **Programming:** Python, Java, C#, Oracle, SQL, HTML, Tailwind CSS, JavaScript, TypeScript, Object-Oriented Designs
- **Frameworks & Tools:** React JS, Next JS, Flask, Django, NodeJS, TensorFlow, NumPy, Keras, Tableau, MongoDB Atlas, OpenAPI
- **Skills:** Data Structures & Algorithms, UI/UX designing, Data Modelling, Mining, Data Visualization, AI, Distributed Systems, Machine Learning
- **Coursework:** Relational Database, Cloud Computing, Operating Systems, SDLC & Agile Methodologies (Scrum), Adv Software Engineering
- **Platforms:** VS Code, Jupyter, Colab, Linux, Azure, Microsoft 365, Git, Jira, Selenium, Junit Testing's, AWS : ec2, elastic cloud

## ACHIEVEMENTS & CERTIFICATIONS

- Smart India Hackathon 2022, Winner
- Oracle Cloud Infrastructure 2024 Generative AI Professional (1Z0-1127-24)
- Introduction to Large Language Models (LLM) by Google Cloud
- Accenture North America Data Analytics and Visualization Job Simulation on Forage - January 2025
- AWS Certified Cloud Practitioner

## PROFESSIONAL EXPERIENCE

### Full Stack Software Engineer, IEJL, United States

July 2025 - Present

- Developing full-stack web apps using Next.js, TypeScript, and Tailwind CSS.
- Built internal tools for task tracking and asset management using scalable backend and responsive UI.
- Implemented user authentication, protected routes, and Supabase for real-time database operations.
- Collaborated closely with product managers and designers to iterate quickly on user needs in Agile sprints.

### Web Development Intern, Coincent Technologies, India

Sep 2022 - Nov 2022

- Engineered a comprehensive Job Portal Management System utilizing HTML, CSS, and JavaScript, PHP.
- Managed SQL database operations for handling employee records and job requirements. Enhanced database efficiency through optimized queries and schema design. Improved UI/UX for enhanced user engagement, reducing bounce rates by 20%.

## PROJECTS

### Gemini API Clone

May 2025 - Jun 2025

- Engineered a high-fidelity Gemini Clone web application utilizing HTML, CSS, JavaScript, JSX, and React.js with a focus on responsive design and optimized user experience.
- Integrated Gemini API for real-time data synchronization, leveraging RESTful services and asynchronous JavaScript to enable dynamic, data-driven user interfaces.
- Designed modular, reusable React components with efficient state management, enabling rapid feature development, reduced code duplication, and improved scalability for real-world, production-ready web applications.

### Kanban Board

Aug 2024 - Dec 2024

- Developed an interactive Kanban board application to enhance task management and workflow visualization.
- Orchestrated the creation of a fully responsive user interface using React.js. Built RESTful APIs with Spring Boot to manage tasks.

### Payroll Management System

Sep 2023 - Dec 2023

- Created a robust system to manage employee financial records, including salary calculations, deductions, and leave management.
- Optimized SQL database queries to ensure smooth execution and processed over 1,000 transactions, maintaining 99.9% accuracy in payroll data.
- Technologies: Python, SQL, MongoDB, HTML, CSS

### Brain Tumour Detection Using Deep Learning

Nov 2022 - Apr 2023

- Constructed a convolutional neural network model achieving 94% accuracy in detecting brain tumours from MRI scans.
- Leveraged a dataset of 3000 MRI images and applied data pre-processing techniques for optimal results.
- Technologies: Convolutional Neural Networks, Python, TensorFlow, Keras

### BLOCKWIZZ project on Property Management System

Aug 2022 - Dec 2022

- Developed *Block Wizz*, a decentralized blockchain-based tax payment system to ensure transparent and tamper-proof transactions.
- Integrated SHA-256 hashing to securely link payment histories in an immutable ledger, preventing fake receipts and duplicate payments.
- Enabled reliable tracking of all tax activities, ensuring no skipped payments and full auditability across the network.
- Technologies: CSS, ReactJS, EthersJS, Flask, JavaScript, Cryptographic-Hashing, Smart Contracts