Lakshmi Ajay Veeramraju

Hyderabad, Telangana 📞+919959931225 ✉ vlakshmiajay.career@gmail.com 🔗 **LinkedIn**

Profile Summary

Software Engineer with a B.Tech in Data Science and Artificial Intelligence, specializing in full-stack application development and scalable software systems. Hands-on experience building web and mobile applications using React, React Native, Next.js, FastAPI, and PostgreSQL, with a strong foundation in software architecture, RESTful APIs, and testing practices. Proven ability to deliver clean, maintainable code, collaborate effectively across teams, and translate business requirements into reliable, user-centric software solutions. As a graded Mridangam artist, I bring discipline, focus, collaboration, and creative problem-solving to enterprise engineering environments. Known for clear communication, structured documentation, and strong version-control practices.

Technical & Soft Skills

Programming Languages: Java, Python, JavaScript, SQL

Technologies & Tools: HTML, CSS, React js, Next js, Git/GitHub/GitLab, Azure, GCP (Firebase), Basics of AWS, React Native, FastAPI, PostgreSQL, REST APIs, LangChain

Concepts: SDLC, Gen AI, Data Structures & Algorithms, Application Architecture, Testing

Soft Skills: Problem-Solving, Team Collaboration, Clear Written & Spoken English, Solution-Oriented Mindset

Experience

Nexgen Tech Labs - *UK (Remote)* **||** *Role: Software Engineer (Freelance Contract)*   **August 2025 – Feb 2026**

- Designed and implemented core components of an AI-assisted platform to support modern application development workflows
- Developed scalable backend services using FastAPI to generate clean, modular, and reusable Terraform configurations, prioritizing maintainability and developer experience
- Built intuitive frontend interfaces with React to streamline the creation, configuration, and execution of Terraform workflows
- Integrated secure authentication and user management with Clerk to enable scalable and role-based access control
- Implemented LLM-driven infrastructure automation using LangChain to simplify Terraform file generation and execution
- Contributed to the development of InfraJet, a platform that simplifies Terraform-based infrastructure creation, management, and execution
- Architected the end-to-end system, including API design, workflow orchestration, and inter-service data flow
- Designed and managed the database architecture to ensure reliability, scalability, and clear separation of concerns
- Deployed and maintained the platform on Azure Web Apps, managing environment configurations, CI/CD pipelines, and production readiness
- Collaborated with cross-functional teams to convert product requirements into scalable, production-grade solutions

Prepstreak - *UK (Remote)* **||** *Freelance: App Developer*   **June 2025 – July 2025**

- Developed a gamified learning application for students (Grades 4–6) focused on habit-based learning using React Native
- Designed and implemented backend services using FastAPI
- Enhanced the application by implementing a leaderboard feature
- Contributed to scalable AI-based product architecture for long-term growth and performance
- Designed and built an automated PDF-to-SQL ingestion pipeline to transform raw SAT practice content into structured relational databases
- Implemented Python-based data extraction, cleaning, and normalization using LangChain and LlamaIndex to process unstructured PDF inputs
- Leveraged LLM-powered semantic parsing with robust validation checks to ensure schema alignment and high data accuracy
- Orchestrated end-to-end workflows using n8n to enable reliable, repeatable, and fault-tolerant automation
- Delivered a production-grade solution that minimized manual data entry and supported scalable, data-driven application functionality

COS360 - *Hyderabad, India* **||** *Freelance: Web & App Developer*   **Jan 2025 – May 2025**

- Developed a school-focused ERP system using React Native, FastAPI, and PostgreSQL
- Implemented modular APIs and database schemas to support scalability and maintainability
- Set up CI/CD pipelines to automate testing and deployments, improving development efficiency
- Authored comprehensive documentation covering APIs, deployment workflows, and operational procedures

QuickLeave - *Hyderabad, India* **||** *Freelance: Web Developer*   **Feb 2024 – October 2024**

- Developed an HR leave-management system, reducing approval turnaround time by 25%
- Designed intuitive user workflows and ensured seamless frontend–backend integration
- Deployed the application with monitoring and logging enabled for production reliability

Newmark - *Hyderabad, India* **|| *Role: InfoSec Intern*** **June 2023 – August 2023**

- Analyzed and investigated security incidents using Azure Sentinel (SIEM), performing log correlation and incident triage to identify suspicious activities
- Developed custom detection rules and KQL queries to automate incident detection and accelerate threat identification
- Implemented automated incident response playbooks to contain, investigate, and mitigate threats, reducing response time and improving security posture

Projects

Deep Learning-Based IDS

Aug 2024 – Dec 2024 | Python, PyTorch, Machine Learning

- Designed an LSTM-GRU based model in PyTorch with GPU acceleration for detecting network intrusions
- Experimented with multiple deep learning architectures to optimize model performance
- Achieved high detection accuracy, improving the effectiveness of cybersecurity defenses

Docuspace Link: https://docu-team.web.app/

Aug 2024 – Sep 2024 | Next.js, Flask, Ollama (LLM)

- Built an LLM-powered document interaction platform enabling chat-based document querying
- Implemented clean APIs and integrated OCR and GenAI components
- Demonstrated full-stack development and cross-functional collaboration skills

Publications and Certifications

- ***Title****:* - A Comparative Analysis of Deep Learning Algorithms for Intrusion Detection in IoT | Link for the Published Paper
  Accepted At - 2024 International Conference on Emerging Techniques in Computational Intelligence (ICETCI)
- Published a Research Chapter - ***Title***: Optimizing Networking Systems with Machine Learning Approach Link for the published chapter
- Neural Networks and Deep Learning by DeepLearning.AI (Andrew Ng) | Link for the Certificate
- 98-381: MTA certification in Python
- Secured 'A' Grade and a Certificate of Proficiency in FMML 2023 Machine Learning by IIIT Hyderabad
- Java 8 tutorials by EDUCBA

Achievements

- Winner, Smart India Hackathon (Internal Round – Software); Qualified for Nationals
- Diploma in Carnatic Music (Mridangam); Multiple national-level awards
- Graded Mridangam Artist by All India Radio – Recognized for proficiency in Carnatic percussion
- LOR from the Ex-Vice Chancellor of ICFAI, Prof. LS Ganesh | Link for the LOR
- Performed Mridangam at many prestigious venues like The Music Academy-Madras, IIT Kharagpur, IIIT Hyderabad and many more
- Avid Chess Player : Won numerous Chess Tournaments during Middle and High School.

Education

ICFAI Foundation for Higher Education **Aug 2021 – Aug 2025**

Bachelor of Technology in Data Science and Artificial Intelligence **CGPA : 8.71**