

Lakshmi Ajay Veeramraju

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Professional Summary

Software Engineer with 2+ years of experience designing, developing, and deploying scalable full-stack web and mobile applications using modern JavaScript frameworks, Python, cloud platforms, and AI-powered technologies. Experienced in building production-grade REST APIs, distributed backend systems, automation pipelines, developer platforms, and mobile applications while collaborating with globally distributed teams. Strong expertise in React, Next.js, React Native, FastAPI, PostgreSQL, Azure, CI/CD, and cloud-native application development. Hands-on experience integrating LLMs, LangChain, AI workflows, vector search, and automation platforms into real-world products. Passionate about clean architecture, system design, scalable software engineering, and solving complex engineering challenges.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, React Native, Expo, HTML5, CSS3, Tailwind CSS, NativeWind

Backend: FastAPI, Node.js, Express.js, REST APIs, LangChain, LangGraph, LlamaIndex

Databases: PostgreSQL, MySQL, Firebase Firestore, Supabase, Redis

AI: Generative AI, LLM Applications, RAG, Prompt Engineering, AI Agents, OpenAI APIs, Anthropic APIs, Vector Databases, Embeddings, Fine-Tuning, Prompt Engineering, Claude Code, Codex, Cursor, GitHub Copilot

Cloud & DevOps: Azure, Azure Web Apps, AWS, Docker, Kubernetes, Terraform, Git, GitHub, GitLab, CI/CD, GitHub Actions, Expo EAS

Core Concepts: OOP, Data Structures & Algorithms, System Design, Microservices, Authentication, SDLC, Agile, Testing, Debugging, Performance Optimization, AI Integration, LLMs, RAG

Professional Experience

Shaale, Abhyas – Remote (Banglore)

Apr 2026 – Present

App Developer (Freelance)

- Optimized AWS S3 audio storage from 352 MB to 24 MB per song, reducing storage by approximately 93% saving nearly 164 GB across 500 songs.
- Debugged production issues involving playback queues, metadata synchronization, and analytics integration.
- Implemented and maintained Firebase-backed application features, resolved production defects, and supported Android and iOS release deployments using Expo EAS.
- Collaborated with stakeholders to design scalable mobile features, API integrations, and production deployment strategies.

Nexgen Tech Labs – UK (Remote)

Aug 2025 – Feb 2026

Software Engineer (Contract)

- Built core modules of an AI-assisted Infrastructure-as-Code platform enabling automated Terraform generation.
- Developed scalable FastAPI backend services and REST APIs for infrastructure provisioning, workflow orchestration, and automation.
- Built responsive React interfaces for deployment workflows, infrastructure configuration, and execution monitoring.
- Integrated Clerk authentication with RBAC and designed PostgreSQL database architecture for scalable applications.
- Deployed and maintained production applications on Azure Web Apps using CI/CD pipelines and Git workflows.
- Collaborated with distributed engineering teams to deliver scalable production-ready software following Agile practices.

Prepstreak – UK (Remote)

Jun 2025 – Jul 2025

Full Stack React Native Developer (Freelance)

- Developed a production-grade React Native learning application with FastAPI backend services and PostgreSQL.
- Built an automated PDF-to-SQL pipeline that converted unstructured SAT content into normalized relational databases.
- Developed AI-powered document extraction pipelines using Python, LangChain, LlamaIndex, OCR, and LLMs.
- Automated end-to-end ingestion workflows using n8n, significantly reducing manual processing effort.
- Designed scalable backend architecture supporting AI-driven educational workflows and future product expansion.
- Collaborated with product stakeholders to deliver production-ready software features.

COS360 – Hyderabad (Remote)

Jan 2025 – May 2025

Full Stack Developer (Freelance)

- Built a School ERP platform using React Native, FastAPI, PostgreSQL, and REST APIs.
- Designed modular backend services and relational database schemas for scalable application architecture.
- Configured CI/CD pipelines to automate testing and deployments.
- Produced API and deployment documentation to improve maintainability.

QuickLeave – Hyderabad

Feb 2024 – Oct 2024

Full Stack Web Developer (Freelance)

- Built an HR Leave Management System with secure authentication and multi-level approval workflows.

- Developed responsive frontend interfaces and backend APIs for seamless user experience.
- Reduced leave approval turnaround time by approximately 25% through workflow optimization.

Newmark – Hyderabad

Jun 2023 – Aug 2023

Information Security Intern

- Investigated security incidents using Azure Sentinel (SIEM) and performed log correlation.
- Developed KQL detection rules and automated incident monitoring.
- Built response playbooks that improved incident response efficiency.

Projects

Captain Tabs – Chrome Extension

Next.js, JavaScript, Supabase, Chrome APIs

- Built a Chrome extension for intelligent browser tab management using Next.js and Supabase.
- Implemented cloud synchronization, smart grouping, duplicate detection, and session persistence.
- Optimized extension performance through efficient state management and asynchronous operations.

DocuSpace

Next.js, FastAPI, Ollama, OCR, LLMs

- Built an AI-powered document assistant using Next.js, FastAPI, OCR, and Ollama.
- Developed REST APIs and semantic document retrieval using LLMs.
- Enabled conversational querying over uploaded PDF documents.

Deep Learning Based Intrusion Detection System

Python, PyTorch, Deep Learning

- Developed an LSTM-GRU intrusion detection model using PyTorch.
- Optimized model accuracy through feature engineering and hyperparameter tuning.
- Applied deep learning techniques for cybersecurity anomaly detection.

Publications

- "A Comparative Analysis of Deep Learning Algorithms for Intrusion Detection in IoT" — Accepted at ICETCI 2024.
- Published research chapter: "Optimizing Networking Systems with Machine Learning Approach."

Certifications

- Deep Learning Specialization – DeepLearning.AI (Andrew Ng)
- Microsoft Technology Associate (98-381): Introduction to Python Programming
- FMML 2023 Machine Learning Certification – IIIT Hyderabad (Grade A)
- Java 8 Programming Certification – EDUCBA

Achievements

- Winner, Smart India Hackathon (Internal Round); Qualified for Nationals.
- Graded Carnatic Mridangam Artist with performances at The Music Academy (Madras), IIT Kharagpur, IIIT Hyderabad and many more.
- Delivered multiple international freelance software projects for UK-based clients in fully remote Agile teams.

Education

ICFAI Foundation for Higher Education

Aug 2021 – Aug 2025

Bachelor of Technology in Data Science & Artificial Intelligence

CGPA: 8.72

Leadership & Activities

- Collaborated with globally distributed engineering teams across multiple freelance engagements, participating in Agile ceremonies, sprint planning, code reviews, and technical discussions.
- Designed software architecture, estimated project timelines, communicated technical solutions with clients, and translated business requirements into scalable engineering solutions.
- Passionate about Full Stack Development, Artificial Intelligence, Distributed Systems and Cloud Engineering.