

Sravya Kakumani

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SUMMARY

Software Engineer with 3+ years of experience in mobile and web application development, building scalable, production-ready systems. Strong foundation in software development, data structures, and algorithms, with expertise in designing clean APIs, developing distributed backend systems, and delivering reliable user-facing features. Experienced in AI-driven applications including speech pipelines and retrieval-augmented generation (RAG) systems. Known for clear communication, attention to detail, and adaptability while collaborating in Agile, cross-functional teams to turn requirements into maintainable, high-quality solutions.

WORK EXPERIENCE

WHYS AI

Boca Raton, FL

Founding Software Engineer

Sep 2025 – Present

- Shipped a production-grade React Native (mobile, Expo, TypeScript) and React (web) application featuring real-time audio analysis, translating Figma designs into a pixel-perfect custom UI system.
- Implemented JWT-based authentication and OAuth 2.0 authorization to securely manage user access across mobile and backend services.
- Orchestrated an end-to-end speech pipeline by benchmarking transcription and speaker diarization models, integrating speaker recognition to achieve 91% combined accuracy.
- Built a resilient Node.js + PostgreSQL backend supporting asynchronous background jobs and presigned S3 uploads, ensuring data integrity during long-form audio recording.
- Streamlined audio streaming using chunked uploads and incremental processing, significantly reducing failures under unstable network conditions.
- Constructed a conversational RAG chatbot using LangGraph and Pinecone, achieving 90%+ retrieval relevance for long-term user memory queries.
- Containerized backend services using Docker and implemented CI/CD pipelines for automated build and deployment workflows, improving release consistency.
- Deployed and managed containerized applications using Kubernetes, supporting scalable and reliable service operations.

University of South Florida

Tampa, FL

Teaching Assistant

Jan 2025 – May 2025

- Mentored and evaluated 20+ academic projects, providing technical guidance and constructive feedback.
- Supported students through review sessions and office hours, strengthening communication and interpersonal skills.

LBK Soft Tech

Kandukur, India

Software Engineer

Jul 2021 – Dec 2023

- Developed a full-stack web application using Java, Spring Boot, and Angular for healthcare data processing and real-time patient record visualization, supporting 1M+ patient records.
- Designed and integrated RESTful APIs using Spring Boot microservices for secure frontend-backend communication, handling healthcare data with privacy and security considerations aligned with HIPAA compliance, supporting 5K+ API requests/day.
- Built responsive Angular user interfaces using HTML5 and CSS3, including dashboards and data views.
- Optimized backend queries and frontend rendering, reducing report load time by approximately 40%.
- Collaborated with cross-functional teams in Agile environments, contributing to 10+ production releases and maintaining clean and maintainable code.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, SQL, C/C++

Front-end Engineering: React, Angular, React Native, HTML5, CSS3, Tailwind CSS, TanStack Query, Responsive UI Development

Back-end & API Development: Node.js, Spring Boot, Prisma ORM, RESTful APIs, PostgreSQL, MySQL, Redis, Authentication & Authorization (JWT, OAuth 2.0), Docker, Kubernetes

AI & Machine Learning: LLM API Integration, Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Vector Databases (Pinecone, pgvector), PyTorch, TensorFlow, Pandas

Cloud & DevOps: AWS (S3, EC2), Docker, Kubernetes, CI/CD (GitHub Actions), Firebase

Testing, Tools & Workflow: Test-Driven Development (TDD), Unit & Integration Testing, Debugging, Performance Optimization, Git, Agile/Scrum

EDUCATION

University of South Florida

Tampa, FL

Master of Science in Data Intelligence (Industrial Engineering)

Jan 2024 – Dec 2025

Mahatma Gandhi Institute of Technology

Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

Jul 2019 – Apr 2023