

# Sasank Mukkamala

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## SUMMARY

Full-Stack Software Engineer skilled in **TypeScript**, **Python**, and **Java**, specializing in building scalable, cloud-native applications using **microservices** and **MVC** architecture. Proven record of enhancing system performance, scalability, and deployment efficiency by up to **30%** through **CI/CD** automation (**GitHub Actions**) and modern tools including **Docker**, **MongoDB**, and **PostgreSQL**. Seeking to apply expertise in **RESTful API** design and **Agile** development to deliver enterprise-grade software.

## WORK EXPERIENCE

Narb

Los Angeles, CA

*Software Engineer Intern*

Sept 2025 - Present

- Researched and enhanced a **multi-model query tool** and **AI SDK**, improving system responsiveness and performance by **30%**
- Reduced AI system inference latency by **25%** by conducting benchmark testing and implementing key optimizations.
- Collaborated with cross-functional teams to gather requirements and validate solutions, which accelerated delivery timelines.
- Developed and tested projects primarily using **Python** and **JavaScript**, ensuring the strategic company goals.

Community Dreams Foundation

Los Angeles, CA

*Software Engineer*

Aug 2025 - Present

- Built and tested scalable software applications using **Python** and **Java** to fulfill client requirements and organizational mandates.
- Elevated user experience by boosting application responsiveness, scalability through rigorous code reviews, debugging processes.
- Partnered with design and product teams to translate user feedback into technical specifications for new feature development.
- Optimized and scaled database layer (**MongoDB**, **MySQL**, **PostgreSQL**) to handle growing datasets and traffic efficiently.

California State University, Los Angeles

Los Angeles, CA

*Software Engineer*

Aug 2023 – May 2025

- Optimized ServiceNow workflows and internal web applications using **JavaScript**, improving IT ticket resolution time by **40%**.
- Built and deployed **CI/CD pipelines** and automated testing frameworks, cutting manual deployment errors by **60%**.
- Implemented **API-level security**, system monitoring, and **99.9% uptime**, ensuring compliance with campus standards.
- Collaborated with academic departments to streamline tech solutions supporting **10,000+** student and faculty interactions.

Phoenix Global

Hyderabad, India

*Machine Learning Engineer*

Jan 2023 - June 2023

- Collaborated on developing **NLP models**, performing analysis and **fine-tuning** algorithms to achieve **25%** accuracy improvement
- Optimized real-time infrastructure, increasing data processing efficiency by **30%** to meet low-latency customer requirements
- Streamlined deployment by integrating models into **Python**-based backend services, achieving **99.9% uptime** reliability
- Utilized **Scikit-learn**, **TensorFlow**, and **GitHub Actions** to implement scalable, full-lifecycle machine learning solutions

Defense Research and Development Organisation

Hyderabad, India

*Software Developer Intern*

May 2021 - Aug 2021

- Developed **Python** backend middleware for research workflows, cutting data conversion time by **60%** for large scientific datasets
- Designed and implemented full-stack **GUI application** (**Tkinter**) for data validation, focusing on front-end to backend integration
- Executed rigorous testing protocols, achieving **100% accuracy** in data conversion for datasets with over **1 million** records

## PROJECT EXPERIENCE

AI SaaS Application | **React.js**, **Node.js**, **Express.js**, **MongoDB**, **Hugging Face API** | [github](#) | [Link](#)

Mar 2024

- Developed and deployed a full-stack web application with **ReactJS**, **Node.js/Express**, and **MongoDB** for AI-powered art generation, integrating **JWT authentication** and **Cloudinary storage** to ensure security and scalability.

AI Medical Chatbot | **Python**, **LangChain**, **Hugging Face**, **Streamlit**, **FAISS** | [github](#)

Nov 2024

- Built a conversational AI application using **LangChain** for contextual reasoning and **Hugging Face APIs** for language processing, deployed a **Streamlit** interface with persistent chat history, resulting in **50%** improvement in responsiveness and engagement.

## EDUCATION

California State University, Los Angeles

Los Angeles, CA

*Master of Science in Computer Science (GPA: 3.94/4.00)*

May 2025

- Honors: **Special Recognition** in Graduate Studies, Merit-Based Fee Waiver Award

Gandhi Institute of Technology and Management

Hyderabad, India

*Bachelor of Technology in Computer Science and Engineering (GPA: 3.97/4.00)*

June 2023

## SKILLS

**Programming Languages:** Python, Java, C++, C, C#, JavaScript, TypeScript

**Frameworks & Web Development:** ReactJS, NextJS, AngularJS, Node.js, Express.js, HTML, CSS, Bootstrap, TailwindCSS, Vite

**Databases & Cloud Technologies:** PostgreSQL, MySQL, MongoDB, GraphQL, REST, Azure, Vercel, Git, VSCode, Linux, Windows

**AI/ML & Data Tools:** TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, LangChain, Hugging Face, Recommendation Systems