

Guthula Raja Venkatesh

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SUMMARY

B.Tech Computer Science student with hands-on experience in full-stack web development (Java, JavaScript, React, Node.js) and Generative AI. Skilled in building, testing, and maintaining production web applications serving real users, with a strong focus on integrating AI-powered features and APIs to solve complex engineering problems.

PROJECTS

Code-Mixed RAG System — TN Disaster Relief ChatBot | *Python, LangChain, FAISS, Generative AI* [GitHub](#)

- Developed a Generative AI RAG-based web application for disaster relief, leveraging prompt engineering to accurately answer queries in Tanglish, Tamil, and English.
- Designed a multilingual NLP pipeline and integrated AI-powered APIs, replacing standard keyword matching with zero-shot intent classification.
- Collaborated on testing and debugging semantic search features across 3,000+ document chunks using FAISS and Indic-SBERT embeddings.

Hostels — Hostel Selection Platform | *Next.js, React.js, JavaScript, Web Development* [GitHub](#) | [Live Demo](#)

- Designed and shipped a Next.js platform that helps incoming freshmen browse and select their desired college hostel, serving 21,000+ unique visitors and 118,000+ page views in production.
- Built an interactive hostel picker with dynamic state management and a responsive interface optimized across mobile and desktop devices.
- Optimized front-end performance and routing to achieve a 31% bounce rate, reducing it by 17% over the deployment period.

Serene Events | *React.js, Next.js, Firebase, JavaScript, Web Development* [GitHub](#) | [serene-events.vercel.app](#)

- Built and shipped a full-stack event management platform serving 15,000+ unique visitors and 36,000+ page views, featuring real-time live chat, automated announcements, and an attendee feedback system powered by Firebase.
- Developed automated QR code generation for streamlined event access and implemented interactive map tools for attendee navigation.
- Designed responsive, secure administration dashboards to organize personnel, monitor event metrics, and reduced bounce rate by 39% through performance optimization.

EDUCATION

SRM Institute of Science and Technology Sep. 2022 – May 2026

Bachelor of Technology in Computer Science & Engineering (CGPA: 7.87 / 10.0) Chennai, Tamil Nadu

- **Coursework:** Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages : Java, JavaScript, TypeScript, Python, SQL, HTML/CSS

Frontend : React.js, Next.js, Material UI, Tailwind CSS

Backend : Node.js, Express.js, REST APIs, Python

Databases : MongoDB, MySQL, PostgreSQL (Supabase), Firebase

Tools & DevOps : Git, GitHub, Docker, Postman, GCP, AWS, Generative AI Tools

CERTIFICATIONS

Programming in Java (NPTEL) | Database Management with MySQL (Meta) | AWS ML Foundations

React Foundations | Next.js App Router