

# S SHANMUKHA SAI REDDY

B.Tech - Computer Science and Engineering

Vellore Institute of Technology (VIT), Chennai, India

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## EDUCATION

**Vellore Institute of Technology, Chennai**

**Aug 2023 – May 2027**

*Bachelor of Technology in Computer Science and Engineering*

*CGPA: 9.01/10*

**Sri Chaitanya Junior College, Hyderabad**

**Jun 2021 – Apr 2023**

*M.P.C*

*Score: 952/1000*

**Narayana Olympiad School, Proddatur**

**Jul 2020 – May 2021**

*SSC Board*

*GPA: 10/10*

## TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, JavaScript, HTML, CSS
- **Frameworks & Technologies:** React, Node.js, Express, Flutter, Firebase, Springboot, Postgresql, MongoDB, SQL, TensorFlow.js, Tailwind CSS, AWS
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Operating Systems, Computer Networks, DBMS
- **Tools & Platforms:** GitHub, VS Code

## PROJECTS

**reusepkg** | *Node.js, Commander.js, Chalk, Inquirer, NPM*

**August 2025 – present**

- Published an open-source **npm CLI tool** that reuses Node.js packages via symlinks, saving 50–80% disk space and speeding setup.
- Implemented **smart package discovery**, cross-platform support (Linux/macOS symlinks, Windows fallback), and registry cleanup.
- Designed a colorful interactive CLI with health checks, search, and address management.

**LifeLink Hospital Console** | *React, Vite, Express, MongoDB, AWS DynamoDB, React Router, Leaflet, OSRM* **July 2025 – present**

- Built a hospital operations console with authentication, admin controls, incidents, doctors, and appointments management.
- Implemented live **Incoming Patients** map with OSRM routing, ambulance animation, and geolocation-based hospital positioning.
- Used React Context for session management and feature-based access control, integrated with secure API proxying.
- Configured Vite dev server with backend proxying, supporting cookie-based sessions .
- Designed responsive UI with Tailwind CSS, Lucide icons, and React Toastify for alerts and notifications.
- Improved reliability with OSRM fallback routing (straight-line estimation) to handle API rate limits or downtime.

**InfraVision** | *Node.js, Express, React, MongoDB, TensorFlow.js*

**May 2025 – July 2025**

- Full-stack AI system for detecting infrastructure issues (garbage, potholes, poles, manholes) from images.
- Used TensorFlow.js for client-side classification and Google Gemini for multilingual complaint generation.
- Implemented multilingual support, GPS-based location detection, and professional PDF export.
- Integrated drag-and-drop upload, voice-to-text, text-to-speech, and chat assistant for accessibility.
- Used Multer for secure file handling and PDFKit for multilingual PDF generation.
- Built a modern mobile-first UI with gradient themes, animations, and real-time feedback.

**Leave It For Me** | *React, Node.js, Express, MongoDB, Flutter, Firebase*

**Dec 2024 – March 2025**

- Developed a MERN web app and Flutter mobile app for managing academic tasks, deadlines, and reminders.
- Integrated LMS Moodle and VTOP scraping for real-time academic event sync using Puppeteer and background services.
- Implemented JWT authentication, email verification, password reset, and multi-device login.
- Added Firebase Cloud Messaging for push notifications and reminders on mobile.
- Designed a React-based admin dashboard to monitor user activity, devices, and sync analytics.
- Optimized performance with MongoDB indexing, background job scheduling, and input validation.

## OTHER SKILLS

- **Languages Known:** Telugu (Native), English (Fluent), Hindi (Intermediate), French (Basic)
- **Soft Skills:** Problem-Solving, Team Collaboration, Adaptability

## ACHIEVEMENTS & CERTIFICATIONS

- Secured **S (A+)** grades in Python Programming, Data Structures and Algorithms, Java Programming, and Web Programming.
- **IBM Generative AI Explorer Certificate (2025):** [View Certificate](#)
- **The Complete Full-Stack Web Development:** [View Certificate](#)