GURUSAIPRASADREDDY

Coimbatore, Tamil Nadu

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EDUCATION

- **Amrita Vishwa Vidyapeetham, Coimbatore** — *2023 – 2027*
  B.Tech in Computer Science and Engineering — CGPA: 6.7/10
- **Narayana Junior College, Nellore** — *2021 – 2023*
  Intermediate (MPC) — Percentage: 92.1%
- **Ratnam High School, Nellore** — *2021*
  SSC — Percentage: 99.67%

PERSONAL PROJECTS

- **DNA Sequence Matcher (Java, BWT Algorithm)** — *2024*
  Genome sequencing tool using Burrows–Wheeler Transform
  - Implemented optimized string-matching for large DNA sequences.
  - Added mutation detection and reduced algorithmic time complexity from $O(n^2)$ to $O(n \log n)$.

- **Library Management System (C Program)** — *2023*
  Console-based book database using C
  - Implemented search, sorting, and display features with structured modular coding.

- **Smart Doorbell System (Arduino IoT)** — *2023*
  IoT-based doorbell using Arduino UNO
  - Built LCD and buzzer-based alert system with embedded C logic.

- **Dynamic Route Recalculation (Java, Dijkstra)** — *2024*
  Traffic-aware routing system
  - Implemented shortest-path algorithms and Union-Find for real-time updates.

- **Smart Student Guide (React Web App)** — *2024*
  Student assistance platform
  - Designed responsive UI, used reusable components, state management, and lazy loading.
  - Improved performance by 30% with optimized code and modular CSS.

- **All-in-One Payment Website (HTML/CSS/JS)** — *2024*
  Payment platform with recharge & bill payment
  - Implemented secure UPI/card workflows and multi-service integration.

- **IoT Smart Waste Management System** — *2025*
  Real-time waste level monitoring
  - Implemented sensor-based waste detection and optimized collection routes.

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Java, Python
Developer Tools: Git, VS Code, Linux, Eclipse
Frameworks: React, HTML, CSS, JavaScript
Cloud/Databases: MySQL
Soft Skills: Problem Solving, Teamwork, Communication
Coursework: DSA, DBMS, OS, Algorithms, Machine Learning
Areas of Interest: Software Development, Machine Learning, IoT, Web Development

ACHIEVEMENTS

- **160 Days DSA Problem Solving Challenge** GeeksforGeeks — *2024*
- **Top Performer in Java Bootcamp** CodeClause — *2024*