GURUSAIPRASADREDDY

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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%

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Java, Python
Developer Tools: Git, VS Code, Linux, Eclipse
Frameworks: React, HTML, CSS, JavaScript, React.js
Cloud/Databases: SQL (MySQL)
Soft Skills: Problem Solving, Teamwork, Communication
Coursework: DSA, DBMS, OOPS Concept, OS, Algorithms, Machine Learning, Computer Networks

PERSONAL PROJECTS

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

- **All-in-One Payment Website (HTML/CSS/JS/Database Integration)** *2024*
  Payment platform with recharge & bill payment
  - Developed a multi-service digital payment platform with mobile/DTH recharge, electricity bill payment, fee payment, and ticket booking modules.
  - Built responsive frontend interfaces using HTML, CSS, and JavaScript with real-time form validation.
  - Integrated backend workflows and database operations to store transactions and service data securely.
  - Implemented secure UPI/card payment flows and API-based service integration.

- **DNA Sequence Matcher (Java, BWT Algorithm)** *2025*
  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 $O(n \log n)$.

- **Smart Defense Radar Monitoring System** *2025*
  Real-time object detection and scanning
  - Developed an embedded radar system using ultrasonic sensors and a microcontroller to detect object distance.
  - Automated angular scanning and visual output for enhanced surveillance accuracy.

ACHIEVEMENTS

- **160 Days DSA Problem Solving Challenge** GeeksforGeeks *2024*