

GURUSAIPRASADREDDY

Coimbatore, Tamil Nadu



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Gurusaiprasadreddy



LinkedIn Profile

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.

• 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.

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