

# GURUSAIPRASADREDDY

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## EDUCATION

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

## PERSONAL PROJECTS

• <b>DNA Sequence Matcher (Java, BWT Algorithm)</b>	2024
<i>Genome sequencing tool using Burrows–Wheeler Transform</i>	
– Implemented optimized string-matching for large DNA sequences.	
– Added mutation detection and reduced algorithmic time complexity from $O(n^2)$ to $O(n \log n)$ .	
• <b>Library Management System (C Program)</b>	2023
<i>Console-based book database using C</i>	
– Implemented search, sorting, and display features with structured modular coding.	
• <b>Smart Doorbell System (Arduino IoT)</b>	2023
<i>IoT-based doorbell using Arduino UNO</i>	
– Built LCD and buzzer-based alert system with embedded C logic.	
• <b>Dynamic Route Recalculation (Java, Dijkstra)</b>	2024
<i>Traffic-aware routing system</i>	
– Implemented shortest-path algorithms and Union-Find for real-time updates.	
• <b>Smart Student Guide (React Web App)</b>	2024
<i>Student assistance platform</i>	
– Designed responsive UI, used reusable components, state management, and lazy loading.	
– Improved performance by 30% with optimized code and modular CSS.	
• <b>All-in-One Payment Website (HTML/CSS/JS)</b>	2024
<i>Payment platform with recharge &amp; bill payment</i>	
– Implemented secure UPI/card workflows and multi-service integration.	
• <b>Smart Defense Radar Monitoring System</b>	2025
<i>Real-time object detection and scanning</i>	
– 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

• <b>160 Days DSA Problem Solving Challenge</b>	GeeksforGeeks	2024
• <b>Top Performer in Java Bootcamp</b>	CodeClause	2024