Singadi Srujan Reddy

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Objective

Computer Science major with a solid foundation in algorithms, data structures, and software development, eager to apply these skills to real-world challenges. Gained hands-on experience with various programming languages and developed scalable applications, eager to join a collaborative team to continue learning and contribute to the company's growth.

Education

Amrita Vishwa Vidyapeetham, Btech in Computer Science, Bengaluru 2022 – 2026

- Current CGPA: 8.39

Sri Chaitanya Junior Kalasala, Board of Secondary Education, Hyderabad 2020 – 2022

- Percentage: 94%

Sri Chaitanya Techno School, Board of Primary Education, Hyderabad 2008 – 2020

- Percentage: 100%

Technical and Soft Skills

Languages: C(Expert), C++(Intermediate), Python(Intermediate), Java(Intermediate)

Database: SQL(Intermediate), NOSQL(Intermediate)

Tools: VS code(Intermediate), Eclipse(Intermediate), Jupyter Notebook(Intermediate), Hadoop(Intermediate)

Technologies/Frameworks: HTML5(Intermediate), Javascript(Beginner)

Soft Skills: Problem-Solving, Adaptability, Time Management, Flexibility

Projects

Secure Messaging via Cryptography, Error Correction & Steganography. May, 2025

- Built a Flask-based secure messaging system using AES-RSA encryption, Reed-Solomon error correction, and hybrid steganography (LSB, QIM, Chaos-based) for tamper-free communication.

Optimizing timetable scheduling using Genetic and Hybrid algorithms. Dec, 2024

- Designed an automated timetable scheduling system using Genetic Algorithm, Simulated Annealing, and Hill Climbing to minimize conflicts and optimize resource allocation.

Automated Assessment of Java Code Using CodeT5+. Sept, 2024

- Implemented CodeT5+ embeddings with CatBoost regression for automated Java code assessment, leveraging PCA and Information Gain for feature selection, achieving an R^2 score of 0.56.

Dynamic Chord Identification using Finite State Machines. Jan, 2024

- Developed a tool using Finite Automata in Python to efficiently analyze and identify chords from MIDI files or dynamiclly played piano.

Achievements and certifications

- Published a paper on Dynamic Chord Identification using Finite State Machines in 5th GCAT conference.
- Published a paper on Automated Assessment of Java Code Using CodeT5+ in ICCCT2025.
- Executive of Codechef Club - The coding club.
- AWS Academy Graduate – AWS Academy Cloud Foundations (AWS, 2025)