

# Amireddy Shashank Reddy

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## SUMMARY

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Passionate about software development and cybersecurity with a strong focus on cryptography, I actively participate in CTF competitions with bi0sblr. My expertise spans competitive coding, application development (Flutter and Kotlin), and web development. Dedicated to expanding my knowledge in these areas, I am eager to explore new domains and continually challenge myself to grow.

## EDUCATION

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2022 - Present	B.Tech in Computer Science at <b>Amrita Vishwa Vidyapeetham</b>	(GPA: 9.11)
2022	Class 12th - Telangana State Board of Intermediate Education	(92.6%)
2020	Class 10th - Central Board of Secondary Education	(81%ile)

## SKILLS

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**Programming:** C, C++, SQL, Python, Java, Data Structures and Algorithms, Object Oriented Programming

**Core Subjects:** Database Management Systems, Operating Systems

**Development:** HTML, CSS, JavaScript, TypeScript

**Technologies/Frameworks:** ReactJS, NodeJS, ExpressJS, Git, Flutter, Kotlin, Astro

## PROJECTS

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### Nitro Sort

[GitHub Repository](#)

Developed "Nitro Sort," a novel list-based sorting algorithm that enhances processing efficiency by dividing input lists into multiple sorted sub-lists and merging them using a min-heap structure. Demonstrated significant computational time improvements over traditional sorting algorithms, particularly for large datasets.

### myWeather

[GitHub Repository](#)

Developed "myWeather," a Flutter application that provides current weather information for a given location. It utilizes the Open Weather GeoCoder API to convert a place name to coordinates and then fetches the current weather using the Open Weather Current Weather API.

### PicSort

[GitHub Repository](#)

Developed "PicSort," a unique sorting visualizer that uses images instead of bars to shuffle and sort based on the selected sorting algorithm, allowing users to visually observe the algorithm in action.

### Audio Encryption Using AES and Cellular Automata

[GitHub Repository](#)

Developed a novel audio encryption system combining AES with cellular automata, enhancing security by XOR-ing AES-encrypted audio with a pseudo-random sequence from Rule 30. This method disrupts pattern recognition, ensuring high confidentiality and integrity for audio data during transmission and storage.

## ACHIEVEMENTS

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- Secured 7th place in VishwaCTF (International CTF).
- Won 2nd prize in Forge GG Hackathon for developing an Instagram filter game.
- Won the Most Innovative Award in AI Hackathon conducted by IEEE Computer Intelligence.