

Amireddy Shashank Reddy

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Education

Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science and Engineering (CGPA: 9.11)

2022 – Present

Bengaluru, Karnataka

Sri Chaitanya Junior College

MPC, Class XII, Aggregate: 92.8%

2020 – 2022

Hyderabad, Telangana

Maharishi Vidya Mandir

Class X, CBSE, Aggregate: 81%

2020

Hyderabad, Telangana

Projects

Nitro Sort | *Algorithms and Data Structures, Python*

May 2024

- Developed "Nitro Sort," a novel list-based sorting algorithm utilizing a min-heap structure for efficient processing of large datasets.
- Demonstrated significant computational time improvements over traditional sorting algorithms by dividing the input into sorted sub-lists and merging them.

Enhanced Audio Encryption Standard | *Python, AES, Cellular Automata*

April 2024

- Developed a novel audio encryption technique leveraging AES encryption for initial security, followed by XOR operation with a pseudorandom matrix generated using cellular automata.
- Implemented a robust pseudorandom layer to enhance security and confidentiality of WAV files, ensuring protection against unauthorized access.
- Integrated Python for AES encryption and cellular automata algorithms, combining cryptographic principles with computational efficiency.

myWeather | *Flutter, OpenWeatherMap API*

December 2023

- Developed "myWeather," a Flutter application for current weather information retrieval.
- Utilized the Open Weather GeoCoder API to convert place names to coordinates and integrated the Open Weather Current Weather API for fetching real-time weather data.

Football Tournament Management System | *JS, PHP, MySQL*

May 2023

- Developed a Football Tournament Management System for university-level tournaments.
- Automated management of teams, players, jersey numbers, captains, and matches.
- Implemented using HTML, CSS, JavaScript, PHP, and MySQL for database management.

Technical Skills

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

Core Subjects: Database Management Systems, Operating Systems

Development: HTML, CSS, PHP, JavaScript, TypeScript, Kotlin

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

Positions of Responsibilities

Lead, bi0sblr CTF Team: Leading one of India's top 5 CTF teams in competitive cybersecurity.

Organizer, bi0s Meetups: Organized monthly meetups to foster community and knowledge exchange.

Achievements

- Secured 3rd place in ShunyaCTF hosted by MIT-ADT Pune.
- 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.

Extracurricular

National Cadet Corps (NCC) - Air Force

June 2018 – May 2020

Cadet

NCC

- Active NCC-Air Force participation, fostering discipline, leadership. Strengthened teamwork, problem-solving, and sense of responsibility, organized approaches. Gained valuable insights into the principles of aviation and military operations.