

# MACHARLA SHIVA KUMAR

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## SUMMARY:

Aspiring Web Developer and Computer Science student with hands-on experience in full-stack projects, including game development and network monitoring tools. Proficient in HTML, CSS, JavaScript, Python, and Java. Strong problem-solving and collaboration skills, eager to contribute to real-world web development projects in a remote environment.

## PROJECT

2048 game with added functionalities – python

2023

- Designed a 2048 game with additional features like Undo and Shuffle to enhance user interaction.
- Implemented logical state tracking for move reversal and grid reshuffling to boost replayability.
- 🏆 Won 2nd Prize at CMRTC Project Expo, Python Domain.

Network Traffic Analyser – Computer Networks| python

2024

- Built a GUI tool to monitor and filter real-time network packets using Python libraries.
- Integrated Wireshark for deep packet inspection to enhance debugging accuracy.

Strategic Counter-Deception Against APTs Using Hypergame Theory – Cybersecurity

2025

- Developed a proactive security framework leveraging hypergame theory to defend against Advanced Persistent Threats (APTs).
- Simulated attacker-defender scenarios and implemented counter-deception strategies to mislead adversaries.
- Improved system resilience in dynamic, multi-layered security environments by anticipating attacker moves.

## EDUCATION

- **Bachelor of technology** CMR Technical Campus, Kandlakoya, Hyderabad 2022-2026  
Computer Science and Engineering CGPA : 7.91
- **Board of Intermediate Education** Alphores Junior College, Jagityal 2020-2022  
Percentage : 89%
- **Secondary School Education** 2020 - SSC  
Akshara High School GPA : 10

## CERTIFICATIONS

**Google Cloud Career LaunchPad**

Data Analyst Track • 2024

**Cisco**

CSS . 2025

**Coursera**

GenAI in Data Analytics • 2025

**IIT Bombay**

JAVA • 2024 HTML . 2025

COURSEWORK

Database Management Systems

Database Management Systems • 2024

Object-Oriented Programming

Object-Oriented Programming • 2025

Data Structures and Algorithms

Data Structures and Algorithms • 2025

ACHIEVEMENTS and EXPERIENCE

Best Project Performer - IIC 6.0

2024

Conducted by CMR technical Campus[got second place and prize money]

Being Zero Pvt Ltd- Student

SEP – 2023 to JAN – 2025

Learning Data Structures and Algorithms and exploring OOPs concepts in JAVA

SKILLS:

- Frontend: HTML, CSS, JavaScript
- Backend: Python, Java, C++, MySQL
- Tools: Power BI, MS Office
- Core Concepts: OOP, DSA, Version Control
- Soft Skills: Communication, Time Management, Team Collaboration