

# J RAVI KIRAN

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## Personal Profile

I have a strong passion for cybersecurity and blockchain technology. It's fascinating to see how traditional computer science integrates with emerging technologies! I'm focused on ensuring that digital environments are secure and exploring the potential of decentralized systems. I'm proficient in Python and have engaged in much practical work with blockchain. My goal is to delve into smart contracts, understand the workings of decentralized systems, and develop secure computing frameworks. Additionally, I'm eager to expand my knowledge in computer architecture and embedded systems. These areas are crucial for grasping how hardware and software collaborate in the modern landscape. My interests extend beyond just coding; I want to understand the tangible effects my work has on the world. Therefore, I continuously seek to learn and remain updated in the rapidly evolving tech industry. It's an exciting journey that constantly offers new experiences!

## EDUCATION

**B. Tech in Computer Science Business Systems** 2021-2025

Mahatma Gandhi Institute of Technology.

**St. Patrick's Junior College** 2019-2021

Telangana State Board of Intermediate Education.

## SKILLS & ABILITIES

### Certifications:

- **eLearn Security Junior Penetration Tester (eJPT)**  
INE (Institute of Network Education)
- **INE Certified Cloud Associate**  
INE (Institute of Network Engineers)
- **Professional Certification in Blockchain Technology**  
Indian Institute of Technology (IIT) Kanpur

- **Object-Oriented Programming in Java Certification**

University of California, San Diego (UCSD) on Coursera

#### **Technical Skills:**

- Solidity
- Network Security
- Vulnerability Assessment and Penetration Testing
- HTML, CSS and JavaScript
- Python
- C++
- Firewall Configuration and Management
- Intrusion Detection and Prevention
- Incident Response and Management
- Git and GitHub
- Blockchain Technology
- C Programming
- Operating systems – Windows & Kali Linux
- SQL
- Computer Organization and Architecture
- Cloud Technology Fundamentals and Public Cloud Platform Support (AWS, Azure, Google Cloud)
- Cloud Service Model Understanding and Migration Strategy Development
- Cloud Security Best Practices and Disaster Recovery Planning

#### **Soft Skills:**

- Attention to Detail
- Adaptability and Flexibility
- Time Management and Prioritization
- Communication and Presentation Skills
- Decision Making and Strategic Planning
- Active Listening and Feedback Incorporation

#### **Leadership Experience:**

##### **Smart India Hackathon**

- **Position: Team Leader**  
Managed a high-achieving team of eight during the Smart India Hackathon, coordinating the creation of innovative solutions that surpassed client expectations within tight deadlines. Showcased strategic leadership abilities to

effectively handle a demanding environment, ensuring favourable project results.

#### **Coordinator - Vibgyor Holi Event**

- **Street Cause Club, MGIT**  
Coordinated the detailed planning and execution of the lively Vibgyori event. Demonstrated proactive and careful organization, leading to a seamless and efficiently managed experience for all attendees.

## **PROJECTS**

### **Machine Learning-based Web Application Firewall (WAF)**

I created a web application firewall that employs machine learning to improve web security by identifying and addressing harmful traffic in real time. Leveraged Python along with libraries such as Scikit-learn and Flask to build models capable of categorizing traffic as either benign or malicious, based on web traffic logs. This WAF notably lowered the number of false positives while successfully detecting attack vectors like SQL injection and cross-site scripting (XSS) thereby enhancing the overall security of web applications through continuous learning and real-time surveillance.

### **VOTING DECENTRALIZED APPLICATION**

Created a decentralized voting system featuring election states (NOT\_STARTED, ONGOING, ENDED) and candidate profiles that include ID, name, proposal, vote tally, and Ethereum address. The platform enables voters to register and monitor their voting status while allowing for vote delegation, ensuring that delegated voters are prevented from voting to uphold the system's integrity. Functions and modifiers have been implemented to facilitate secure voting processes.