

# VENKATA NAGA KIRAN KATARI

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in LinkedIn

## CAREER OBJECTIVE

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Motivated and detail-oriented Computer Science graduate student specializing in Cybersecurity, seeking an opportunity to apply academic knowledge of network defense, threat analysis, and ethical hacking in a practical environment. Passionate about learning, problem-solving, and contributing to organizational security initiatives.

## EDUCATION

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### Master of Science, Computer Science (Jan2025-Dec2026)

Rowan University

### Bachelor of Technology, Computer Science and Engineering(Cyber Security) (Aug2020-May2024)

Godavari Institute of Engineering and Technology

## PROJECTS

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### Enhancing IoT Security Through Anomaly Detection and Intrusion Prevention in Cyber - Physical System

- Developed an advanced IoT intrusion detection system to enhance security in cyber-physical systems using supervised deep learning models, including CNN, LSTM, and DNN architectures. The system achieved benchmark accuracies of 100% on KDDCup99, 95.1% on NSL-KDD, and 87.4% on UNSW-NB15 datasets. A Flask-based web application was deployed to demonstrate real-time anomaly detection with standardized data preprocessing. This research was published in the Proceedings of ICCIET 2024 by Atlantis Press (DOI: 10.2991/978-94-6463-471-6\_130). Machine Learning for Diabetic Retinopathy Detection

### Keylogger - Capturing Keystrokes

- Proof-of-concept for keystroke capture with GUI; used for security awareness demonstrations with emphasis on ethics and responsible use.

### Student Database Management System

- Developed a web-based Student Database Management System (SDMS) using PHP, HTML, CSS, and MySQL to manage student, faculty, attendance, exam, and registration data. Implemented CRUD operations across multiple relational tables and incorporated views, stored procedures, functions, and triggers to ensure data consistency and integrity. Designed the backend to maintain ACID compliance and support reliable transactional operations, including automated student registration and data validation. Integrated triggers to handle dependent record deletions and correct invalid attendance entries, ensuring accurate and consistent database performance.

## SKILLS

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- Technical Skills - Python, Java, C, SQL, Linux PowerShell, HTML, CSS, Cyber Security, SOC, SIEM, Network Security, Incident Response, Ethical Hacking, OSINT, Cryptography, Splunk, Snort, Burp Suite, Nmap, Wireshark, OWASP, Microsoft Sentinel, VirtualBox.
- Soft Skills: Teamwork, Communication, Problem Solving, Analytical, Logical Thinking, Adaptability, Leadership, Time Management, Attention to Detail.

## RELEVANT COURSEWORK

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Malware Analysis | Advanced Digital Design | Intrusion Detection and Prevention System | Biometric Security | Database Management | Ethical Hacking | Cryptography | Cyber Defense | Network Security| Computer Networks| Digital Forensics.

## INVOLVEMENTS AND ACHIEVEMENTS

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- Secretary, Cyber Security Club – Bachelor's.
- Won certificate for a concept talk about Cyber Security in Technical Fest.
- Published research in ICCIET 2024 by Atlantis Press (DOI: 10.2991/978-94-6463-471-6\_130)

## CERTIFICATIONS

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- Introduction to Cyber Security-Coursera
- CompTIA+ (InProgress)