

# Vamshi Krishna Reddy Karivemula

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Experienced Cybersecurity enthusiastic specialised in Network and Cybersecurity. Pursuing Master's in Cybersecurity, Technology, and Policy. Skilled in network security, cloud security, vulnerability assessment, and malware analysis. Certified CompTIA Security+ professional with expertise in security assessments, vulnerability scanning, and code reviews. Proven track record of project success and publications in renowned conferences. Seeking to contribute technical acumen and strategic insight to a dynamic cybersecurity team.

## EXPERIENCE

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### Vintek LLC

IT & Cybersecurity Analyst

Dallas, Texas

Oct 2023 - Dec 2023

- Conducted comprehensive security assessments, leveraging advanced vulnerability scanning tools such as Nessus and Qualys, coupled with meticulous code reviews using platforms like Veracode and Checkmarx.
- Collaborated closely with incident response teams, utilising sophisticated platforms such as Splunk and Elastic SIEM to promptly investigate and mitigate security incidents, minimising disruptions to business operations.
- Employed cutting-edge frameworks and technologies to identify and address potential security risks, ensuring a robust defence posture against evolving cyber threats and bolstering customer trust.

### Cognizant Technologies

Associate Trainee Engineer

Bengaluru, India

Jan 2021 - May 2022

- Played a pivotal role in fortifying security measures within the Payments Security team, collaborating closely with application developers to integrate advanced detection and prevention mechanisms, including technologies such as Intrusion Detection Systems (IDS), Web Application Firewalls (WAF), and encryption protocols like SSL/TLS.
- Spearheaded cross-team initiatives to enhance security awareness, facilitating knowledge sharing sessions and workshops to educate personnel on best practices and emerging threats in the cybersecurity landscape.
- Executed phishing campaigns to simulate real-world cyber threats, providing valuable insights into employee susceptibility and facilitating targeted training initiatives to strengthen organisational resilience against phishing attacks.

### Happymonk AI Labs

Assistant Engineer

Bengaluru, India

Sep 2020 - Dec 2020

- Spearheaded a traffic camera image processing initiative, curating a diverse dataset sourced from social media platforms and professional archives. Leveraged cutting-edge image processing frameworks such as OpenCV and TensorFlow, resulting in a remarkable 90% enhancement of image analysis capabilities, enabling more accurate traffic monitoring and analysis.
- Architected robust data storage solutions utilising MongoDB backend infrastructure, ensuring data security and optimizing storage efficiency. Implemented encryption protocols and access controls to safeguard sensitive data, guaranteeing its integrity and confidentiality throughout its lifecycle.
- Collaborated with cross-functional teams to implement continuous integration and deployment (CI/CD) pipelines, streamlining development processes and ensuring seamless deployment of updates to the image processing system.

## SKILLS

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- **Languages:** Python, C, SQL, NoSQL, HTML, CSS, R.
- **Security Skills:** Network Security, Cloud Security, Vulnerability Assessment, Malware Analysis.
- **Frameworks and Tools:** NIST, ISO 27001, PCI-DSS, GDPR, Nmap, Wireshark, Splunk, Metasploit.
- **Operating Systems:** AWS, Azure, Docker, Kubernetes, Linux.
- **Soft Skills:** Communication Skills, Critical thinking, Adaptability, Leadership.

## PROJECTS

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- **Location Aided Secure Routing System in Ad-hoc Networks:** Designed and implemented a simulation project in NS2 focused on establishing secure communication between wireless devices within an Ad-hoc

network, addressing challenges posed by network unavailability scenarios. The project aimed to enhance communication reliability and security in dynamic network environments.

- **Data Storage on Cloud using Split-Merge and Hybrid Cryptographic Techniques:** Designed and implemented a secure cloud-based text file storage solution leveraging cryptographic algorithms, including AES, DES, and RSA, while optimizing encryption and decryption processes, employed split-merge techniques to enhance data security and integrity.
- **Digital Forensics Investigations Project:** Leading the development of "A Practical Guide to Digital Forensics Investigations," I achieved a flawless 100% score, meticulously covering essential topics including Windows Operating and File Systems, Network Forensics, Mac Forensics, and Online Investigations. Through hands-on exploration, the project emphasised key techniques such as utilising FTK Imager, extracting MAC addresses, and analysing network traffic with tools like Wireshark and TCPdump. Noteworthy aspects included documenting evidence with a chain of custody (CoC) form.

## PUBLICATIONS

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- Sai Kishore Reddy, P., Hari Kishan Reddy, A., Vamshi Krishna Reddy, K., Suresh, L., Giri, A. (2023). **Location Aided Secure Routing System in Ad-Hoc Networks.** In: Gunjan, V.K., Zurada, J.M. (eds) Proceedings of 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. Lecture Notes in Networks and Systems, vol 540. Springer, Singapore. [https://doi.org/10.1007/978-981-19-6088-8\\_8](https://doi.org/10.1007/978-981-19-6088-8_8).

## CERTIFICATIONS

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- **CompTIA Security+ certified**, Candidate ID : COMP001022325329

## EDUCATION

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- **The University of Texas At Dallas** *Dallas, Texas*  
MSc. In Cybersecurity, Technology and Policy, GPA : 3.81. *Aug 2022 - May 2024*  
Courses : Digital forensics, Cybersecurity Policy, Data security and privacy, Malware analysis.
- **PES University** *Bengaluru, India*  
B.Tech in Computer Science with specialization in Network and Cybersecurity. *Aug 2018 - May 2022*