Yash Vasoya

Masters of Technology (Cyber Security)
Pandit Deendayal Energy University

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OBJECTIVE

Aspiring to secure a challenging position, I am dedicated to contributing my relevant skills and diligence to organizational success. I am eager to grow within a dynamic environment and make a meaningful impact.

EDUCATION

•**Pandit Deendayal Energy University, Gandhinagar, Gujarat** *2023 - 2025*
Masters of Technology (Cyber Security) CGPA: 8.67

•**RK University, Rajkot, Gujarat** *2019 - 2023*
Bachelor of Technology (Computer Engineering) CGPA: 8.06

•**Popular Science School, Rajkot, Gujarat** *2017 - 2019*
HSC - Gujarat Secondary and Higher Secondary Education Board (GSEB) Percentile: 49.64

•**Sarvoday Education Campus, Moviya, Gujarat** *2016 - 2017*
SSC - Gujarat Secondary and Higher Secondary Education Board (GSEB) Percentile: 80.72

EXPERIENCE

•**Assistant Professor (Cyber Security)** *July 2025 - Present*
Marwadi University Rajkot, Gujarat, India

– Deliver undergraduate-level lectures on core cybersecurity subjects, including network security, ethical hacking, and digital forensics.
– Guide students in practical labs and research projects focusing on emerging cyber threats and real-world defense mechanisms.
– Organize workshops, seminars, and hands-on training sessions to enhance student engagement and skill development in cyber defense and investigation.
– Collaborate with faculty and industry experts to design interdisciplinary modules incorporating AI, blockchain, and Cyber Forensics.

•**Cybersecurity Analyst (Freelance)** *June 2024 - May 2025*
CyberTech Shield LLC Vadodara, Gujarat, India

– Performed security assessments on new technologies to identify potential threats and vulnerabilities in the system.
– Maintained up-to-date knowledge of cyber security trends and best practices.
– Monitored network traffic for malicious activity, identified abnormal behavior, and responded accordingly.
– Conducted regular audits of IT systems to ensure compliance with corporate data security policies.
– Investigated computer security incidents as they occurred, analyzed the root cause of incidents, documented findings, and recommended corrective actions.

•**Assistant Manager (Information Technology)** *June 2024 - March 2025*
WardWizard Innovation & Mobility Limited Vadodara, Gujarat, India

– Developed and enforced organization-wide information security policies, ensuring secure handling of sensitive data and minimizing exposure to threats.
– Coordinated with cross-functional teams to implement secure system configurations, access controls, and encryption protocols across all digital assets.
– Supervised the deployment of endpoint protection, DLP solutions, and firewalls to enhance perimeter security and reduce attack surfaces.
– Delivered cybersecurity awareness training to staff, promoting a strong security culture and reducing incidents of phishing and social engineering attacks.

•**Cybersecurity & Digital Forensics Intern.** *Nov 2022 - Feb 2023*
Cyber Secured India Mumbai, India

– I gained practical experience with Linux fundamentals, utilizing Nmap for network scanning, and discovering open ports.
– And Exploring the basics of Burp Suite for analyzing web requests and responses, identifying injection vulnerabilities, and conducting brute-force attacks.

Personal Projects

•Deepfake Forensics *May 2024 - Still Continue*

Work in the Generation of Deepfake Audios-Videos and Identification of Deepfake Audios-Videos

- Tools and Programming Languages used: Google Colab, Python, VS Code, Python Interpreter.
- Technologies used: Machine Learning, Deep Learning, Tensor Flow, Keras.
- Specially, we used Data set to train the GAN model to generate Deepfake, and from that, We Focused on developing a Methodology to identify Deepfake-generated audio-video.

•DEncrypt Tool for Linux & Windows *April 2023*

Designing the Tool for Linux & Windows which helps to encrypt or hide secret Messages.

- Tools & technologies used: Python, VS Code, Fernet, QT, cryptography Algorithm.
- Demonstrated proficiency in Python and Steganography techniques by developing a robust image encryption tool with cross-platform functionality (Windows & Linux).
- And Enhanced covert communication capabilities for Y organization through a custom-built image steganography tool using Python and advanced libraries.

Publication/Research Work

•Machine & Deep Learning-Based Enhanced Solution for Smart Agriculture with a Focus on Cybersecurity

Under Processing

- Researched AI/ML-driven smart agriculture systems with a strong emphasis on cybersecurity integration and Focused on addressing cyber risks in IoT-enabled farming to ensure secure and efficient operations.
- Developed deep learning models for crop yield prediction, pest detection, and irrigation optimization, and Leveraged real-time sensor and satellite data to support data-driven decision-making in agriculture.
- Proposed a multi-layered cybersecurity framework tailored for Agriculture 4.0 ecosystems. Emphasized Explainable AI and privacy-preserving methods to protect agricultural data and infrastructure.

•Detecting Deepfake Images with Enhanced Generative Adversarial Networks *May 2025*

Published in 6th International Conference, icSoftComp 2024 Bangkok, Thailand.

- Developed a novel deepfake detection method using GANs trained on deepfake-generated images to enhance detection of high-quality synthetic media.
- Addressed key challenges such as data scarcity and real-time detection, demonstrating improved accuracy over traditional models like LSTM and ResNext.
- Paper Link: Click Here

•A Comprehensive Exploration to Cybercrimes Investigation Techniques *Feb 2024*

Published in 2024 11th International Conference on Computing for Sustainable Global Development (INDIACom)

- Conducted an in-depth study on cybercrime investigation techniques, emphasizing the need for advanced tools and legal frameworks to combat evolving cyber threats.
- Explored technological, legal, and administrative dimensions, advocating for stronger cyber legislation and global cooperation, with a focus on the Indian context.
- Paper Link: Click Here

•A Detailed Exploration to the Cloud Forensics Challenges and Solutions *Dec 2023*

Presented in Springer Conference

- Through active participation in researching and writing this review paper, I gained valuable insights into cloud forensics investigations and the application of a powerful tool like FROST.
- Technology Used: Cloud Computing, Digital Forensics, FROST.

Technical Skills and Interests

Field of Interest: Cyber Forensics, Cyber Security, Cyber Security Strategy, VAPT, Darkweb Analysis, SOC, Risk Analysis, Deepfake Forensics

Technical Skills: Ethical Hacking Techniques, Data Privacy Compliance, Incident Response Planning, Social Engineering Prevention, Forensic analysis, Evidence collection

Software Skill: Darkweb Analysis tool (Hunchly, Torbot, etc...), Burp suite, Wireshark, Forensics Tools (FTK Imager, Autopsy, etc...)

Languages: Gujarati, Hindi, English

Programming language: Python, Bootstrap, HTML/CSS

Soft Skills: Team Management, Project Management, Communication, Leadership, Problem-Solving, Time-Management

Involvement & Activities

•**Debate on Cyber Security and Privacy**   *Aug 2021*
Organized by Cyber Police Rajkot

  – Leveraged strong communication and critical thinking skills to participate in a debate on cyber security and cyber awareness at the Cybercrime workshop organized by Cyber Police Rajkot at Atmiya University.
  – Demonstrated research and presentation skills during a team debate on cyber security and cyber awareness at the Cyber-crime workshop.

Positions of Responsibility

•**Cyber Security Volunteer**   *Jan 2023 - Present*
National Cyber Crime Reporting, Gujarat, India

  – Assisted in reviewing and categorizing cybercrime complaints on the National Cyber Crime Reporting Portal, supporting law enforcement with preliminary digital evidence analysis.
  – Promoted public cybersecurity awareness by conducting workshops and outreach programs focused on online safety, fraud prevention, and digital hygiene.
  – Collaborated with state-level cybersecurity officials to enhance incident response protocols and streamline reporting mechanisms for citizens.

•**Teaching Assistant**   *June 2023 - May 2025*
Pandit Deendayal Energy University, Gandhinagar, Gujarat

  – Assisted faculty for Courses in Cybersecurity, Python Programming, and Cyber Forensics in delivering undergraduate and postgraduate students.
  – Assisted faculty in preparing course materials, conducting hands-on lab sessions, evaluating student assignments, and mentoring students on academic projects and research in information security and digital forensics.

Certifications & Achievements

•**ISO/IEC 27001:2022 Lead Auditor -** MasterMind   *June 2025*

•**ISO 27001 Information Security Associate -** Skill Front   *May 2025*

•**International Research Excellence Award -** I2OR   *Dec 2024*

•**ISACA Certified Information Security Auditor (CISA) -** Infosec4TC   *Nov 2024*

•**ISACA Certified Information Systems Manager (CISM) -** Infosec4TC   *Nov 2024*

•**CSI Linux Certified Investigator -** CSIL-CI   *June 2024*

•**Verified Ethical Hacker -** CISCO   *May 2024*

•**Certified Cyber Crime Intervention Officer -** National Security Database | ISAC   *Dec 2022*

•**Ethical Hacking Essentials -** EC - Council   *Dec 2022*

•**Digital Forensics Essentials -** EC - Council   *Oct 2022*

•**Ideation March Boot camp - Runner Up -** RK University   *July 2021*

Declaration

I hereby declare that all the information provided above is true and accurate to the best of my knowledge and belief.

Your Sincerely
Yash Vasoya