Arth Patel

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Cybersecurity student with expertise in network and IoT security, including digital security systems. Proficient in tools like Autopsy, Kali Linux, Metasploit, and Splunk, and skilled in AWS, Azure, and GCP. Experienced in vulnerability assessments, penetration testing, and implementing security measures for IoT devices. Dedicated to advancing in the cybersecurity field, bringing strong problem-solving and technical skills to innovative security solutions.

EDUCATION

The University of Texas at Dallas, USA ***GPA 3.5/4.0***
Master of Science in Cybersecurity, Technology and Policy *August 2023-May 2025*
Gujarat Technological University, India **CGPA 7.71/10.0**
Bachelor of Engineering in Computer Engineering *August 2019-May 2023*

SKILLS

Cybersecurity Tools: Autopsy, Kali Linux, WireShark, WebGoat, Metasploit, Nessus, Burp Suite, Splunk
Cloud Platforms: AWS, Microsoft Azure, Google Cloud Platforms
Programming Languages: Python, Java, C, R, JavaScript
Web Technologies: HTML, CSS, Tailwind CSS
Soft Skills: Team leadership, Risk Management, Integrity, Problem solving, Multi-Tasking, Decision Making

WORK EXPERIENCE

Network Security Engineer Intern, Desktop Creators, Gujarat, India **April 2023 – July 2023**
- Deployed bespoke PC configurations, bolstered LAN infrastructures, and resolved hardware/software challenges.
- Implemented advanced diagnostic and remediation methodologies, resulting in a 30% reduction in system downtime.
- Conducted vulnerability assessments and penetration testing to identify and mitigate security risks.
- Configured and maintained firewalls, intrusion detection systems (IDS), and intrusion prevention systems (IPS).
- Developed and enforced security policies to protect sensitive data and maintain compliance with industry standards.
- Managed and secured IoT devices, including CCTV cameras, to prevent unauthorized access and data breaches.
- Implemented digital security measures for surveillance systems, ensuring real-time monitoring and incident response.
- Conducted security audits of digital and IoT infrastructure, identifying vulnerabilities and implementing corrective actions.

Web Developer Intern, OM Infosolutions, Gujarat, India **January 2021 – April 2023**
- Developed a personal portfolio website and contributed to various web development projects focusing on user-centric design and responsive methodologies.
- Utilized contemporary web development frameworks to expedite project timelines and improve website responsiveness.
- Conducted code reviews and debugging to ensure high-quality, secure code.

ACADEMIC PROJECTS

Image Steganography, Laurentian University **August 2022 – December 2022**
- Developed robust steganographic techniques for secure information concealment.
- Designed encryption algorithms to ensure data confidentiality and integrity.
- Monitored unauthorized access, implementing real-time alert systems to promptly respond to security incidents.
- Conducted extensive testing to validate the robustness and efficiency of the steganography techniques.
- Established comprehensive policies and procedures to ensure compliant and secure steganography usage.

Diabetes Prediction using Machine Learning, Laurentian University **July 2022 – August 2022**
- Collaborated with Dr. Kalpdrum Passi to develop machine learning solutions for data analysis and predictive modeling.
- Created a predictive model for early diabetes detection using multiple machine learning algorithms to enhance diagnostic accuracy.

EXTRA-CURRICULAR ACTIVITIES

Cybersecurity Club Member
- Active member of the university's cybersecurity club, participating in workshops, hackathons, and competitions to enhance practical skills.
- Collaborated with peers and shared knowledge of the latest cybersecurity trends and techniques.

State-Level Sports Shooting Competitor
- Competed as a state-level sports shooting player, showcasing dedication, precision, and the ability to perform under pressure.