

## Mohammed Touheed Patel

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### Professional Summary

Passionate and detail-oriented cybersecurity professional and developer skilled in program management, research, and risk analysis. Committed to delivering clean, secure, and scalable solutions through continuous learning and innovation. A proactive problem solver with hands-on experience in software development, cybersecurity challenges, and team leadership. Thrives in collaborative environments, driving impactful and innovative products.

### Education

#### **University of Delaware, USA — Master of Science in Cybersecurity (Secure Systems) (August 2023 – December 2024)**

- GPA: 4.00 | Active member of UDCTF
- Actively participated in live CTFs and discovered numerous flags over three semesters
- Relevant coursework: Web Application Penetration Testing, Reverse Engineering, Security Controls, Cloud Security, System Hardening and Protection

#### **Osmania University, India — Bachelor of Engineering in Information Technology (August 2019 – May 2023)**

- GPA: 7.84 | Distinguished member of the university's IEEE Club
- Fully funded bachelor's degree by the Telangana Government based on merit
- Relevant coursework: Information Security, Cybersecurity, Computer Networks, Operating Systems

### Experience

#### **XIT Solutions Inc, Hyderabad, India — Software Developer (January 2023 – August 2023)**

- Developed and optimized software solutions, ensuring alignment with client requirements and security best practices.

#### **IKIGAI - The Art of Living, Hyderabad, India — Full Stack Developer (August 2021 – August 2022)**

- Developed full-stack solutions for client projects, ensuring high performance and user experience.

#### **Cyberensis Infosec, Hyderabad, India — Cyber Security Intern (August 2020 – September 2020)**

- Gained practical experience in cybersecurity tools and methodologies.

### Projects

#### **SecureAuth-SA (NetScout Cyberathon)**

- Awarded 2nd prize at NetScout Cyberathon in the advanced level of challenges.
- Developed a highly secure authentication system with a multi-level encryption mechanism combining symmetric and asymmetric cryptography.
- Implemented AES-based Cipher Block Chaining (CBC) encryption, SHA-256 hashing, and XOR operations.
- Designed a dynamic password generation system to ensure uniqueness for identical passwords across users.
- Collaborated with the CyberKnight team in a 24-hour hackathon challenge.

### **Phishing Email Detection**

- Developed a machine learning-based system to detect phishing emails.
- Implemented cybersecurity techniques to analyze email headers, content, and embedded links.
- Focused on ethical hacking principles to enhance detection accuracy.

### **Intelli Learn (HenHack 2024)**

- Led a team in a 24-hour offline hackathon at the University of Delaware.
- Developed an AI-powered educational tool to help children learn math using pictorial data.
- Integrated Wolfram APIs for dynamic problem-solving.
- Debugged and optimized team members' code for seamless integration.

## **Skills**

**Technical Skills:** Problem Solving, Risk Analysis, Risk Management, Security Operations, Vulnerability Assessment, Software Development, APIs, Integration, Automation

**Tools:** Wireshark, Splunk, SIEM, IDS, Burp Suite,

**Soft Skills:** Collaboration, Team Leadership, Communication

## **Certifications**

- IT Fundamentals for Cybersecurity
- (ISC)<sup>2</sup> Certified in Cybersecurity
- Python3 Programming Specialization
- Play It Safe: Manage Security Risks

## **Awards & Achievements**

- Best Outgoing Student (10th Grade)
- Bugbeaters (Sudhee 2019) – 2nd Prize Winner
- Code Convert Techeon (Sudhee 2020) – 2nd Prize Winner
- 2nd Place in Hackathon by Shooting Star Foundation