Mohammed Adnan Jakati

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EDUCATION

New York University New York, NY
MS in Cybersecurity; GPA: 3.9/4.0 *Sep. 2023 – May. 2025*

KLE Technological University Hubli, India
B.E. in Electronics and Communication; GPA: 8.38/10 *Aug. 2018 – May 2022*

PROFESSIONAL EXPERIENCE

Security Engineer Aug. 2022 – Aug. 2023
Sony India Software Centre *Bangalore, India*

- Implemented Research, Analysis, and Proof of Concept (POC) development to identify emerging cybersecurity threats
- Engineered early-stage **threat detection and remediation system** using **Honeypots** and **Splunk** for **real-time threat monitoring** and alerts
- **Awarded** First Challenge Runner-Up for developing a pioneering TDR system, demonstrating exceptional skill in cybersecurity innovation.

Software Engineer Intern Jan. 2022 – Jun. 2022
Alorb Technologies Private Limited *Bangalore, India*

- Deployed an Employee Management Web App with **AWS**, using EC2 instances and **AWS** Web Hosting to enhance performance by 3 times and scalability by 100%
- Handled databases using using **MongoDB and GraphQL**. Reduced code redundancy by 20%

PROJECTS

Hack the box Jan. 2022 – Present

- Carried out **penetration testing and vulnerability assessments** through Hack The Box, an online cybersecurity training platform
- Enhanced skills in **network security, cryptography, and web application security**, achieving a 95% success rate in challenge completions
- Collaborated with a community of over 2000 cybersecurity professionals to solve complex challenges and stay updated on the latest threats and techniques

Penetration Testing and Vulnerability Analysis Apr. 2024 – May 2024

- Executed a penetration test over a 4-week period, simulating attacks
- Identified and exploited 5 critical vulnerabilities, gaining root access on a Linux server machine within 3 hours
- Pivoted from the compromised server to the client machines in the network, achieving full system compromise in under 2 days
- Authored a 20-page penetration test report detailing the methodologies used, 10+ vulnerabilities discovered, exploitation steps, and 15 actionable remediation recommendations to enhance security posture

Evasion Attacks May 2023 – Aug. 2023

- Engineered a robust framework generating adversarial samples designed to spoof machine learning models into misclassifying data
- Spoofed modern image classifiers, achieving a misclassification rate of over 85% against state-of-the-art models
- Trained the compromised models using the generated adversarial samples, increasing their resilience and reducing the success rate of evasion attacks by 70%

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript
Cybersecurity Tools: Wireshark, Metasploit, Nmap, Burp Suite, Splunk, pwntools, sqlmap, nikto, Hydra, Zap
Frameworks and Tools: Git, Flutter, Node.js, Express.js
Others: SQL, MongoDB, AWS EC2, AWS Lambda, AWS DynamoDB, AWS S3, OWASP Top 10, CWE 25, Agile, SDL

ACTIVITES

- Graduate Assistant for the Department of Centre for Cybersecurity at NYU.
- Member of OSIRIS Lab (Offensive security, Incident response and Information security).
- Graduate Teaching Assistant for the course of Object Oriented Programming with C++ and Java at NYU Courant.
- Graduate Orientation Leader for NYU Tandon School of Engineering (Spring 2024).