# MUHAMMED PATEL

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## EDUCATION

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| **Memorial university of Newfoundland** | **Sep. 2021 – Apr 2026** |
| *Bachelor of Science in Computer Science **(Dean's List 2024-2025)*** | *St. John's, NL* |

## TECHNICAL SKILLS

**Offensive Security Tools**: Nmap, Burp Suite, Metasploit, OWASP ZAP, Nessus, Wireshark
**Security Knowledge**: OWASP Top 10, CVSS, NIST CSF
**Blue Team / Detection**: SIEM (Splunk/ELK), Incident Response, EDR, Log Analysis
**Systems & Cloud**: Linux, Windows Hardening, Docker, AWS, GCP
**Programming & Scripting**: Python, Bash, SQL, JavaScript, Java

## EXPERIENCE

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| **Nasdaq - Verafin** | **Jan. 2025 - Aug. 2025** |
| *Software Developer Intern* | *St. John's, NL* |

- Built scalable data pipelines and automation tools, improving financial data processing speed by 20%.
- Worked in regulated financial environments, collaborating with security and compliance stakeholders.
- Used Agile tooling (JIRA/Confluence) to track changes impacting security-sensitive workflows.

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| **MetaCrust Services** | **Jun. 2024 – Jan. 2025** |
| *Cybersecurity Intern* | *St. John's, NL* |

- Conducted vulnerability assessments using Nmap, Nessus, and manual testing, identifying X critical / Y high-risk issues across Linux and Windows hosts
- Deployed monitoring tools and SIEM dashboards to enhance threat detection and mitigation.

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| **MSA - Memorial University Of Newfoundland** | **Oct. 2021 – Jan. 2025** |
| *Web Developer* | *St. John's, NL* |

- Developed secure full-stack web apps with React/Node and implemented authentication & encryption.

## PROJECTS

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| **AI Shield — AI Security Firewall (Personal Startup Project)** | **Sept. 2025** |

*Python, FastAPI, React, SQLite, Railway, Vercel*

- Built a production-ready AI security firewall to detect and block prompt injection and jailbreak attacks before requests reach LLMs.
- Implemented multi-layer risk scoring and verdict classification (*Safe / Suspicious / Blocked*) to identify 50+ malicious prompt patterns in real time.
- Deployed a full-stack system with a React-based security dashboard and FastAPI backend on Railway and Vercel, providing live monitoring and secure AI proxying.

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| **Vulnerability Management System** | **Oct. 2024** |

*Python, Networking, TCP/IP, Socket Programming, SQLite, Nmap*

- Automated vulnerability detection, risk scoring, and remediation reporting aligned with NIST CSF.
- Implemented network scanning and service enumeration using Nmap and custom Python scripts, storing scan results in SQLite for trend analysis and reporting.

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| **Phishing Link Scanner** | **Nov. 2024** |

*Flask, AWS EC2, Nginx, Gunicorn*

- Built a Python web app with real-time threat detection using Google Safe Browsing API.
- Deployed on AWS with SSL, enabling cloud security posture management.

## CTF & EXTRACURRICULAR

**Top 2% on TryHackMe** – active in online wargames and cybersecurity communities
**Global Cyber Skills Benchmark 2025 (HackTheBox)** – **Solved** 3 forensic challenges with Nasdaq team during my Internship
**MUN IEEE CTF (Apr 2024)** – 2nd Place
**Team zh3r0 (India, 2020–2022)** – DEFCON, VULNCON CTF, Google CTF and more; ranked **Top 3** nationally

## CERTIFICATIONS

**Jr Penetration Tester** – TryHackMe (Oct 2024)
**LFC108: Cybersecurity Essentials** - The Linux Foundation (Apr 2024)
**Certified Ethical Hacker** - Gujarat University, Techlabs (Feb 2020)
**In Progress:** - CompTIA Security+ & Pentest+, ISC² Certified in Cybersecurity (CC), TryHackMe Web Application Penetration Testing