

# ADITYA PATIL

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## SUMMARY

Cybersecurity MS student skilled in pentesting, vulnerability management, and securing web, API, and LLM systems. Seeking offensive security or blue-team roles to strengthen organizational security.

## EXPERIENCE

### Vulnerability Management Co-op - Rochester Regional Health | Aug. 2025 - Present

- Performed internal and external penetration testing on internet-facing systems to assess security posture and validate risks.
- Conducted Dynamic Application Security Testing (DAST) on web applications to identify vulnerabilities.
- Collaborated with infrastructure and development teams to prioritize, track, and remediate vulnerabilities.

### Penetration Tester - Rochester Institute of Technology, SAFE Lab | Jan. 2025 – May 2025

- Conducted security assessments on an IoT device, performed thick client penetration testing, and carried out application reverse engineering and hardware attacks to strengthen system security.
- Reviewed source code to uncover logic flaws, insecure crypto usage, and privilege escalation vulnerabilities.

### Teaching Assistant - Rochester Institute of Technology | Jan. 2025 - May 2025

- Teaching Assistant for NSSA-221 Systems Administration I: Supported students during lab practical, held tutoring sessions, and evaluated assignments to reinforce system administration and security skills.

### Systems Engineer (Cybersecurity) - Tata Consultancy Services | June 2023 - June 2024

- Identified and reported security vulnerabilities across 25+ web and API assets for a Big Four client, including cross site scripting (XSS), cross site request forgery (CSRF), SQL injection (SQLi), privilege escalation and sensitive data disclosures.
- Conducted manual penetration tests using Burp Suite and validated risks through exploitation.
- Performed pentests on LLM-integrated applications and reported multiple OWASP Top 10 vulnerabilities.
- Automated reconnaissance workflows using custom Python scripts, saving ~ 5 hours per pentest.

### Security Consultant Intern - SecureLayer7 | March 2023 - May 2023

- Performed web and API penetration testing for enterprise clients; discovered critical issues including XSS, CSRF, SQLi, and privilege escalation and delivered clear, actionable reports with OWASP & PTES standards.

### Project Intern - Wipro | March 2022 - June 2022

- Developed a full-stack MERN application, implementing a RESTful API with Node.js/Express and a responsive React frontend to perform full CRUD operations.

## EDUCATION

### Rochester Institute of Technology | M.S. Cybersecurity

Fall 2024 - Expected Dec. 2026 • GPA: 3.89/4.00

### Savitribai Phule Pune University | B. E. Computer engineering

June 2018 - April 2022 • GPA: 8.95/10.00

## PROJECTS

### Linux Package Integrity & Authentication using a PQC Hybrid RSA-2048 and ML-DSA-65

- Developed a hybrid-signature integrity-verification system for Linux packages using RSA-2048 and post-quantum ML-DSA-65 to resist quantum attacks and ensure authenticity.

### Malicious URL Detection Using Machine Learning

- Developed a logistic regression based model to detect malicious URLs based on lexical analysis.

## SKILLS & TOOLS

Pentesting: Burp Suite, Caido, IBM AppScan, Metasploit, Nmap, Wireshark, Postman

Vulnerability Management: Rapid7 InsightVM, InsightAppSec,

Programming: Python, Java, C, C++, JavaScript

Security: Web, API & IoT Security, PTES, OWASP, SAST/DAST, Thick Client & LLM Security Testing

Standards & Frameworks: SOC, HIPAA, PCI DSS, GDPR, and NIST

Coursework: Cryptography, Cyber Analytics & Machine Learning, Adv. Malware & Computer Forensics

## AWARDS & ACHIEVEMENTS

- 2<sup>nd</sup> Place - Collegiate Penetration Testing Competition (CPTC) Great Lake Regional 2025.
- Top 100 out of 12000 candidates - TCS HackQuest Season 7 CTF Competition.
- Hall of Fame - [Drexel University, USA](#) & [State of California](#) - reported high severity vulnerabilities exposing personal and financial data.