

John Cruz

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Certifications & Credentials

CompTIA

CompTIA Security+ Certification (April 2024)

TCM Security

Practical Web Pentest Professional (PWPP) (Jan 2025) | Practical Web Pentest Associate (PWPA) (July 2024) | Practical Junior Penetration Tester (PJPT) (November 2024)

Technical Projects

Web Application Security, Penetration Testing, and Software Development

- Performed a web application penetration test on TCM Security's RaceOne app using Burp Suite, identifying NoSQL injection, WebSocket hijacking, mass assignment, JWT attacks, and broken authentication vulnerabilities. Developed a CVSS-based security report with remediation recommendations.
- Led a web application penetration test on the TCM FailSafe app using Kali Linux and Burp Suite, uncovering OWASP Top 10 vulnerabilities like SQL Injection, DOM-based XSS, and IDOR. Combined manual testing with SQLmap automation and delivered a CVSS-based remediation plan.
- Conducted threat modeling and attack surface analysis on web applications, mapping API endpoints and identifying security weaknesses. Combined DAST scanning with manual exploitation, developed PoC exploit chains, and delivered CVSS-based security reports.
- Executed an Internal Network Penetration Test in a TCM Security simulated Active Directory environment. Compromised the domain controller by conducting LLMNR poisoning, Kerberoasting, and NTDS.dit dumping with Metasploit and Mimikatz. Delivered an assessment report with remediation recommendations.
- Designed and developed a blockchain ticketing SaaS generating \$100,000+ in sales and serving 500+ users. Built with React, TypeScript, Thirdweb, and Stripe API, integrating smart contracts for seamless transactions. Currently expanding the platform into a general-purpose web application.

Professional Experience

CyberHaven

Technical Support Engineer

New York, NY

Jan. 2025 - Current

- Investigate and troubleshoot data security incidents, ensuring compliance with data protection policies and threat mitigation.
- Analyze system logs and security alerts, collaborating with teams to identify, escalate, and resolve security incidents.
- Support security software deployments on Windows, macOS, and Linux, assisting teams with incident response and risk analysis.

Moverz Group

Full Stack Developer

New York, NY

Jan. 2022 - Jan. 2025

- Built a blockchain ticketing system with React & TypeScript, securing payments via Thirdweb SDK and wallet integration.
- Enhanced DApp security and transaction reliability, increasing transactions by 30% through smart contract audits and vulnerability mitigation.
- Optimized smart contract deployments, reducing costs by 98% using Node.js and Prisma while integrating security measures to protect user data.
- Performed security risk assessments on blockchain applications, identifying vulnerabilities in smart contracts and strengthening security protocols.

Yardi Systems

Technical Analyst

New York, NY

Jul. 2019 - Jul. 2023

- Monitored server performance and application incidents using Kibana and Grafana, collaborating with teams to resolve cloud, server, and SQL-related issues.
- Diagnosed and resolved internal server errors and application slowdowns by analyzing server logs, error logs, SQL scripts, and application code (VB and SQL).
- Collaborated with cross-functional teams including Development and Security to troubleshoot and resolve web application issues affecting clients.
- Conducted security testing for cloud-based applications, identifying vulnerabilities and implementing improvements in SQL and application code.
- Documented findings and solutions in Confluence, creating technical documentation to streamline issue resolution and enhance team knowledge.

Buncece

Software Engineer & QA Tester

New York, NY

Jul. 2018 - Jul. 2019

- Automated security checks using Selenium, collaborating with developers to address platform vulnerabilities and improve system integrity.
- Collaborated with design teams to revamp UX/UI, reducing vulnerabilities and increasing security by 20% through proactive measures.
- Developed new application features focused on secure coding practices, reducing potential security risks such as XSS and SQL injection.
- Worked directly with end-users to refine security features, improving application performance and addressing user-reported issues promptly.

Shop Arc

Junior System Engineer & Security Analyst

New York, NY

Jan. 2017 - Sep. 2017

- Managed IT support tickets and resolved technical issues, collaborating with cross-functional teams to maintain operational efficiency.
- Automated software deployments and security updates with PowerShell scripts, improving system integrity and efficiency.
- Conducted vulnerability assessments of web applications using OWASP Top 10 guidelines, identifying and addressing security gaps to mitigate risks.
- Coordinated security awareness programs and phishing simulations to enhance organizational knowledge of cybersecurity threats and best practices.

Education

Stony Brook University

Bachelor of Science in Computer Science / Information Systems Engineering with a concentration in Web Applications

New York, New York

2012-2016