

Ripunjay Singh

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EXPERIENCE

LTIMindtree Hartford, CT — *AI/ML Engineer Intern*

June 2024 - PRESENT

Developed a customer-focused risk analytics prototype with MSSQL, AWS Glue, AWS Redshift, and Snowflake, boosting decision-making by 55%, and implemented AWS GenAI Framework with Tableau and MicroStrategy for real-time, granular risk insights, reducing operating costs by 45%.

DTCC - NYU VIP Project Brooklyn, NY — *Researcher*

Jan 2024 - PRESENT

Collaborated with NYU and DTCC to publish research on supply chain threats, enhancing vulnerability management by 45% through investigation of risky code and dependencies, and tested and documented the effectiveness of over 10 software attestation and SBOM tools in a controlled AWS EC2 environment.

Verizon Business Cary, NC — *Security Solutions Architect*

May 2021 - Dec 2022

Implemented a Palo Alto NGFW for a Fortune 500 logistics company, reducing incidents by 11% and saving customers \$52k annually in potential breach costs, while also automating network diagram creation using Python, Microsoft Visio, and PowerShell, reducing creation time by 45%.

United Parcel Service Mahwah, NJ — *Software Engineer*

Jun 2019 - July 2020

Strengthened BIA website security by executing PL/SQL Procedures, reducing SQL injection attacks by 40%, and automated an email dispatch system using Bash, SQL Server, and SharePoint, achieving a 55% efficiency boost.

EDUCATION

New York University, New York, NY *Master of Science, Cybersecurity* | GPA: 3.88

Jan 2023 - May 2025

Cyber Fellows Program; Member, IEEE; Member, NYU Tandon Consulting Club; Member, Cyber Security Club

New Jersey City University, Jersey City, NJ *Bachelor of Science, Computer Science* | GPA: 3.98

May 2021

Summa Cum Laude, President – Entrepreneurship Club, Member – Goldman Sachs Local College Collaborative, Vice President – Delta Sigma Pi

SKILLS

TOOLS: Splunk, NMap, Wireshark, Burp Suite, Nessus, Tableau

TECHNOLOGIES: Firewalls, IDS/IPS, Malware Analysis, SQL Server, SIEM, AWS, GCP, Azure

SECURITY PRACTICES: Vulnerability Management, Risk Assessment, Cryptography, Network Security Architecture, Cloud Security

PROGRAMMING: C/C++, Python, SQL, Bash, PowerShell

NETWORKING: TCP/IP, DNS, DHCP, SSL/TLS, VPN, Firewall Management

COMPLIANCE: PCI-DSS, ISO 27001, NIST 800-53, HIPAA

OPERATING SYSTEMS: Windows Server, Linux, Unix, macOS

Other

CERTIFICATIONS: (ISC)2 Certified in Cybersecurity, Verizon Cybersecurity Accreditation Program, Palo Alto Prisma Associate, Splunk Fundamentals

CONFERENCES: Presenter at ICITST 2023 - Topic: "OS Software Supply Chain Attacks – A Modern-day Nuisance"

MEMBERSHIPS: ISACA, (ISC)2, IEEE@NYU, Cyber Fellows

AWARDS: Winner, (ISC)2 Capture the Flag; Winner, UPS Hackathon

PROJECTS: Malware Memory Analysis using AI, Email Header Analyzer using Python