Maria Shirin

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EDUCATION

John Jay College of Criminal Justice, CUNY **Manhattan, New York**
Bachelor of Science in Computer Science and Information Security | **GPA:** 3.99 December 2026
Relevant Coursework: Cryptography & Cryptanalysis, Advanced Data Structures, Computer Algorithms, Computer Networking, Linux System Admin & Security, Object Oriented Programming, Computer Architecture
Honors & Activities: Dean's List (Fall 2023- Present), Computer Science Society

PROFESSIONAL EXPERIENCE

John Jay College of Criminal Justice Professor: Muath Obaidat **Manhattan, New York**
Cybersecurity Researcher – Agentic AI & LLMs December 2025 – Present

- Designed 45+ advanced search queries across Google Scholar, IEEE, ACM, ScienceDirect, and MDPI, identifying 75,000+ publications on agentic AI, LLMs, and cybersecurity.
- Synthesized findings from 1,000+ articles using PRISMA for a publication-oriented AI cybersecurity survey, with the research library adopted for student ML security projects.

Career Learning Lab, John Jay College Professor: Mateusz Opalinski **Manhattan, New York**
Industry Immersion Experience, Technology and AI February 2026 – May 2026

- Led a 4-member team to integrate 3 AI-powered workflows using n8n, Flowise, Groq API, and Airtable while architecting a 5-table relational database with automated quiz generation and 0–100 confidence scoring.
- Directed end-to-end testing across 30 PDFs and 40+ records, resolving workflow, API, and metadata issues to deliver a fully functional platform and earn a 96% project grade.

Tuxedo Paw Animal Rescue **Brooklyn, New York**
Founder January 2024 – January 2025

- Oversaw end-to-end rescue operations, applicant screening, and adoption logistics, leveraging veterinary and rescue partnerships while evaluating 25+ prospective adopters to achieve a 100% placement rate.
- Spearheaded digital and grassroots outreach generating 2,000+ Instagram engagements and negotiated a 92% reduction in veterinary costs through community collaborations.

PROJECTS

Cryptanalysis & Frequency Analysis Tool February 2026 – March 2026
Developed a C++ cryptanalysis tool to decrypt a 646-character substitution cipher using statistical frequency analysis. Engineered a 6-class object-oriented application that recovered 100% of the original plaintext without the encryption key.

Network Attack Analysis & Incident Response June 2025 – July 2025
Analyzed 100+ TCP log entries to identify a SYN flood DoS attack, tracing abnormal SYN packet volumes that exhausted web server resources. Investigated the 3-step TCP handshake, determined the root cause of website outages, and documented mitigation strategies to improve network security.

Security Audit & Risk Assessments January 2025 – February 2025
Evaluated 15+ administrative, technical, and physical controls, identifying 8 critical security gaps impacting data protection and business continuity. Assessed compliance with PCI DSS, GDPR, and SOC requirements and delivered an 8/10 risk assessment report with prioritized security improvements.

SKILLS, CERTIFICATIONS, LANGUAGES, AND INTERESTS

Skills: C++, Python, SQL, Docker, Wireshark, Cisco Packet Tracer, VirtualBox, Windows, Microsoft Office
Certifications: Google Cybersecurity Professional Certificate (In Progress), Cisco Networking Devices and Initial Configuration (December 2025), Red Hat Training: Linux Fundamentals (December 2025)
Languages: English (Native), Russian (Fluent), Spanish (Intermediate)
Interests: Classical Russian Ballet (12 years), Community Clothing Donations (13+ years), Space Science