Ameer Rahman

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EDUCATION

Rutgers University   New Brunswick, NJ
Bachelor of Science in Computer Science, Minor in Critical Intelligence Studies   *Aug. 2024 – May 2027*

EXPERIENCE

Cybersecurity Intern   July 2025 - August 2025
Redynox   *Remote*
- Configured **firewalls**, and captured traffic with **Wireshark** to conduct an **end-to-end network security study**, effectively detecting all typical threats such as **phishing, trojans, and DNS abnormalities**
- Used **OWASP ZAP** and **WebGoat** to identify and exploit significant web application vulnerabilities (**SQL Injection, XSS, and CSRF**) and describe mitigation solutions, proving practical expertise with the most common **OWASP attack vectors**

AI and Augumented Reality Intern   June 2025 - August 2025
Jasfel Analytics   *Newark, NJ*
- Developed and refined **Python scripts** to automate AI model training processes, resulting in a **30 percent reduction** in model deployment time
- Use tools like **NumPy, Pandas, and Scikit-learn** to improve data processing workflows for AI model validation

IT Help Desk Intern   February 2024 - Aug 2024
Michael Motazedi C.P.A.   *Jamaica, NY*
- Improved **operation systems** by **35 percent**, minimized network issues, and provided technical and hardware assistance
- Protected sensitive client data by implementing **backup systems**, routine maintenance and troubleshooting, creating a smooth **digital infrastructure** and utilized **Active Directory**

PROJECTS/LABS

Malware Research | *Python*
- Engineered the malware to perform **privilege escalation**, **keylogging**, and techniques in a lab environment
- Increased understanding of malware evasion tactics by **35 percent**, confirmed through comparative analysis using **Wireshark**, **Procmon**, and **Ghidra**

AI Object Detector | *Python, YOLOv8, OpenCV, TensorFlow*
- Engineered a real-time object detection system using **YOLO, TensorFlow GPU, and OpenCV**, achieving **90 percent accuracy** in identifying and classifying objects across diverse datasets
- Deployed a scalable solution with a **streamlined UI**, enabling seamless integration for applications in **security**, retail analytics, and **autonomous systems**.

File Transfer System | *Python, TCP Sockets, File I/O, Client-Server Architecture*
- Utilized Python to secure file storage system with password-based **AES encryption**
- Used **cryptography.fernet** to encrypt and decrypt files with keys that came from passwords
- Created a **CLI-based user interface** for file encryption, decryption, and storage with error handling

EXTRACURRICULAR

Colorstack National | *New Brunswick, NJ*   January 2025 – Present
- Participated in tech-focused workshops to advance professional development and programming abilities
- Attended networking events with industry professionals and peers from underrepresented backgrounds in tech

Rutgers SAS First Together Mentorship | *New Brunswick, NJ*   November 2024 – Present
- Participated in career development for first-generation college students
- Collaborated with alumni and peers through mentorship circles focused on career readiness

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, C/C++, R, Swift
Development/Frameworks: React, Node.js, JUnit, REST APIs, Pandas, Plotly, Geopandas, Folium
Certifications: Coursera Google Cyber Security, Coursera Google Data Analytics, CompTIA A+