Siddiq Mohaideen

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EDUCATION

Rensselaer Polytechnic Institute   Expected May 2027
B.S. in Information Technology & Web Science (Focus Track: Information Security)   *GPA: 3.57*
- **Certifications:** AWS Certified Solutions Architect - Associate, CompTIA Security+
- **Competitions:** UCONN CyberSEED 2025 Finalist, National Cyber League (Top 15%)
- **Leadership:** Student President @ ISC2, RPI Student Success Tutor, Risk Analyst @ RPI Finance Club
- **Activities:** RPI Cybersecurity Collaboratory, RPI-SEC, RPI Consulting Club, Acacia Fraternity

EXPERIENCE

Cybersecurity Consultant Intern - NYSTEC (Client: ANDRO) | Albany, NY   January 2026 - Present
- Training AI Models for RF-SIGINT at ANDRO Computational Solutions under a SBIR DoD contract.

Undergraduate Security Researcher | Troy, NY   August 2025 - December 2025
- Working with Prof. Yener and Ret2 Systems leadership on a DARPA-style initiative to create an autonomous LLM-based binary exploitation assistant.
- Designed Python modules for GDB analysis, vulnerability triage, and static/dynamic hybrid analysis, decreasing manual analysis effort by 40-55% in initial trials.
- Benchmarked the system on dozens of CTF, Linux, and real-world binaries, improving exploit success rate by 30% over traditional automated tools.

Undergraduate Quantum Security Researcher | Troy, NY   January 2025 - May 2025
- Built a Python-based MITM simulation to intercept and analyze RSA key-exchange traffic, collecting 1,000+ packets across controlled experiments.
- Ran quantum-assisted decryption tests on 50+ custom RSA ciphertexts, demonstrating that quantum algorithms could successfully recover plaintext under idealized conditions.

Business Analyst Intern - NYSERDA | Albany, NY   June 2024 - Present
- Co-led migration of 35+ forms into secure digital workflows, interacting with multiple stakeholders and using Visio for process design and risk analysis to identify control gaps and efficiency improvements.
- Developing secure low-code workflows (Salesforce-Jotform) to automate business processes with RBAC controls, improving compliance; delivering findings in risk-reduction presentations to 10+ executives.
- Analyzed workflow and employment Tableau datasets (35,000 records) to identify inefficiencies, delivering data-driven insights that informed policy changes and resource allocation.

PROJECTS

Instagram Notification Bot   June 2025 - Present
- Developed a fully automated DM-monitoring bot and deployed it on AWS, using Amazon ECS (Fargate) for serverless container execution and Amazon ECR for Docker image storage.
- Hardened the system using AWS IAM roles and AWS Secrets Manager for secure session-cookie and webhook handling.

Open Source Contributor @ IBM Tornjak (SPIFFE/SPIRE)   January 2025 - April 2025
- Contributed to open-source cloud identity and access management tooling (SPIFFE/SPIRE) by authoring documentation on Tornjak Manager.

Mongoose Resume Enhancer Application   January 2025 - May 2025
- Designed and implemented a secure solution architecture for a full-stack web app (React/Node/Python), deploying REST APIs with access controls and automated workflows under Agile and OWASP best practices.

CERTIFICATIONS & SKILLS

Security Tools: Wireshark, Burp Suite, OWASP ZAP, Nessus, Nmap, Ghidra, Kali Linux, Metasploit

Cloud & Automation: AWS (S3, EC2, ECS/ECR, IAM, Secrets Manager, CloudTrail, Lambda), Terraform, Azure, Google Cloud, Docker, Kubernetes, Git, GitHub, GitLab, Selenium, Postman, Tableau, Jira, JSON, Confluence, OpenRouter API, VMWare, Microsoft Office (Word, Excel, PowerPoint)

Programming & Scripting: Python, C/C++, Bash, HTML, CSS, JavaScript (React.js/Node.js), SQL, PHP, MIPS

Governance & Frameworks: Familiar with Agile/Scrum, NIST CSF, OWASP Top 10