

Mukut Chowdhury

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EDUCATION

NYU Tandon School of Engineering, New York, NY

Sept 2024 - May 2026

Master of Science, Cybersecurity | GPA: 3.78

NYU Tandon School of Engineering, New York, NY

Sept 2020 - May 2024

Bachelor of Science, Computer Engineering

SKILLS

Security & Infrastructure: Nessus, Qualys, Wireshark, Burp Suite, Docker, Jira, ServiceLink, SIEM platforms

Programming: Python, Java, SQL, Bash, JavaScript, C++, HTML/CSS

Development Stack: React, Next.js, Node.js, Flask, MongoDB, RESTful APIs

Cybersecurity: Vulnerability Management, Incident Response, Threat Detection, Security Automation, IAM, Penetration Testing

Standards & Compliance: NIST CSF, OWASP Top 10, CIS Controls, DevSecOps, SOC II

Certification: CompTIA Security

EXPERIENCE

Exiger, New York, NY

Jun 2025 - Aug 2025

Role: Cybersecurity Intern

- Automated vulnerability ticket creation from Qualys to Jira via a Dockerized pipeline
- Collaborated with the Governance team to enforce NIST CSF-aligned controls, manage credential encryption, and enhance visibility of high-risk security findings across teams.
- Analyzed threat intelligence data and vulnerability scan results to identify emerging risks, providing actionable recommendations that strengthened the organization's security posture.

Apartment Maid, Brooklyn, NY

Jul 2024 - May 2025

Role: Junior Developer

- Reduced shopping cart abandonment rate by 15% by implementing a full-stack cleaning service platform using Next.js, React, Stripe, and MongoDB, and optimized pricing based on real-time demand.
- Built a real-time admin dashboard for revenue insights and user analytics, improving stakeholder decision-making and increasing customer retention by 10%.
- Redesigned and modernized the booking portal interface, streamlining the calendar-based scheduling system to improve user experience and reduce booking friction.

NYC Department of Consumer and Worker Protection, New York, NY

Jul 2023 - Nov 2023

Role: Automation Software Engineer Intern

- Automated 30+ cybersecurity test cases using Selenium (Java), identifying high-risk vulnerabilities and reducing application errors by 15% across 300+ test scenarios.
- Integrated automated testing workflows into CI/CD pipelines, collaborating with development teams to implement continuous security validation and accelerate deployment cycles.
- Conducted thorough QA for 50+ licensing applications with a 98% bug-detection rate, ensuring system reliability.

NYU Tisch School of the Arts, New York, NY

Aug 2022 - Jul 2023

Role: Cybersecurity Engineer

- Applied Six Sigma to enhance operational efficiency, reducing turn-around time by 50% through comprehensive support for hardware, software, and security vulnerabilities, effectively resolving technical problems.
 - Managed and secured website, implementing robust cybersecurity measures; monitored and tracked 10-15 daily client interactions using ServiceLink to ensure efficient and confidential handling of client data and requests.
 - Documented and created knowledge base articles for common technical issues, improving troubleshooting procedures.
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PROJECTS

College Genie

- Launched an AI-powered college assistant bot with secure Stripe integration and account authentication via Clerk.
- Implemented Retrieval-Augmented Generation (RAG) and hardened API endpoints to ensure secure query processing.

CodeFlash

- Developed a full-stack web application using Next.js, React, Firebase, and Clerk to enable users to create, save, and review interactive flashcards for coding interview preparation, with a responsive UI and secure authentication.
- Implemented cloud-based storage with Firestore, user authentication via Clerk, and modular component design with CSS Modules, ensuring scalability, data persistence, and a mobile-friendly user experience.