Sayan Saha, Security Engineer

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PROFILE

Cybersecurity Engineer focusing on penetration testing and information security roles. Proven expertise in reducing security incidents through NIST guidelines and real-time threat detection using Splunk for diverse clients at Honeywell. Skilled in strengthening software security with Java, conducting security assessments including penetration testing, and leveraging Power BI for insightful cybersecurity analytics.

EMPLOYMENT HISTORY

May 2023 — Present

Systems Engineer I, Honeywell
Atlanta, GA

- Reduced security incidents by 30% through NIST guidelines and real-time threat detection with Splunk for diverse Honeywell clients.
- Strengthened applications with Java, effectively patching vulnerabilities for enhanced software security by 20%.
- Achieved 70% security improvement by patching critical vulnerabilities across Honeywell's infrastructure and services.
- Utilized Power BI for insightful cybersecurity analytics to lower overheads costs by 10%.
- Conducted security assessments including penetration testing for clients within the Red Team at Honeywell.
- Contributed to the development of Honeywell's internal tool known as Cyber Checker that conducts deep assessment and generates and transmits logs to a server.

Jan 2023 — May 2023

Research Scientist I, Georgia Tech Research Institute
Atlanta, GA

- Managed projects effectively through Jira, promoting seamless collaboration among teams and ensuring timely project delivery.
- Demonstrated proficiency in Windows Server administration, executing hardware replacements to maintain uninterrupted business operations.
- Strengthened network security with the implementation of Cisco ISE, enforcing robust access control policies and data protection.
- Utilized SolarWinds for proactive network imaging and hardware monitoring, optimizing network performance and minimizing system downtime.

PROJECTS

May 2022 — Aug 2022

Asymmetric RSA Key Generator
Kennesaw State University

- Programmed Java and JavaFX to implement a GUI application for encoding and decoding plain text files
- Designed application and supporting documentation adhering to modern UI/UX conventions.
- The hash public and private keys were computed and parsed to the console so that user could encrypt the plain text and decipher the cipher text to reveal the original message.
- This project was overseen by Dr. Xinyue Zhang and findings and final report were presented to faculty.

Aug 2020 — Apr 2021

Pupil Size Variation as an Indication of Dizziness while Driving
Kennesaw State University

- This research monitored the pupil size of a driver on a driver simulator to identify the onset of dizziness.
- An algorithm will be developed based on the recorded data to automatically identify dizziness of a driver from the pupil size variation.
- The objective of this project is to integrate this algorithm with vehicle dynamics so that the emergency indicator in a car gets enabled whenever such a medical condition is detected.

EDUCATION

May 2018 — May 2023

B.S. in Computer Science, Kennesaw State University
Kennesaw, GA

Concentration: Cyber & Network Security - GPA: 3.94 - Summa Cum Laude

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SKILLS/CERTIFICATIONS

Splunk Core Certified User	Microsoft Office Specialist
Systems Security Certified Practitioner	CISSP (In Progress)