

MD MAHMUDUZZAMAN KAMOL

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◇ LinkedIn ◇ Github ◇ Personal Website

OBJECTIVE

Cyber Security Engineer with a strong background in security testing and vulnerability management. As a dedicated professional, I am eager to advance my career by pursuing a Ph.D. focused on security-related research. I aim to contribute to cutting-edge advancements in cyber-security, enhancing theoretical knowledge and practical applications.

EDUCATION

BSc in Computer Science and Engineering

Jan 2020 - Jan 2024

American International University Bangladesh

CGPA - 3.98/4.00

Relevant Coursework: Network Security, Computer Networks, Advanced Programming In Web Technology, Micro-processor & Embedded Systems and Introduction To Data Science

WORK EXPERIENCE

Cyber Security Engineer

Aug 2024 - Present

Dutch Bangla Bank PLC

Dhaka, Bangladesh

- Conduct penetration testing for API, web, and mobile applications.
- Maintain SIEM, XDR, DLP, NBA, and other enterprise security solutions.
- Deliver organized guidance to support and mentor other teams when necessary.

Consultant - Cyber Security

Aug 2024 - Present

TechnoNext Ltd. (US Bangla Group)

Dhaka, Bangladesh

- Conduct penetration testing for Cloud, API, Web and Mobile applications.
- Conduct security training sessions and workshops to educate other teams on best practices and emerging threats.

Junior Cyber Security Engineer

Dec 2023 - Jul 2024

TechnoNext Ltd. (US Bangla Group)

Dhaka, Bangladesh

- Led penetration testing for API, web, and mobile applications, focusing on real-world threats for US-Bangla Airlines, Air Astra, Foodi, five online travel agency platforms, and other US-Bangla Concerns.
- Utilized Wazuh, Graylog, IRIS, MISP for robust security monitoring and incident response procedures to detect and mitigate potential threats effectively
- Implemented SELKS stack with Mikrotik to ensure network security monitoring

Associate, Security Operation Centre

Sept 2023 - Nov 2023

SSL Wireless

Dhaka, Bangladesh

- Conducted penetration testing and discovered over 30 severe bugs, including PII data leak to complete server takeover impacting more than 40 applications.
- Successfully recovered and restored two servers filled with undetectable malware.
- Collaborated with others in maintaining SIEM, EDR, and Nessus.
- Assisted in PCI-DSS compliance for secure payment card data in alignment with regulatory and industry standards.

Intern, Security Operation Centre

Jun 2023 - Aug 2023

SSL Wireless

Dhaka, Bangladesh

- Assisted in web application penetration testing to identify vulnerabilities and security weaknesses.

- Contributed to ensuring security compliance with PCI-DSS and other regulatory requirements.
- Maintained organized records of penetration testing results, vulnerabilities, and remediation actions.

UNDERGRADUATE PROJECTS

DMT - Metro Rail Ticketing Web Application

A ticketing web application with a React frontend and a Laravel API backend. Simplifies the ticket booking process with integrated payment gateways supporting all types of payments in Bangladesh. Features live location tracking.

Made with: **React, Laravel, AamarPay Payment Gateway API** (GitHub Link)

Diabetes Prediction Using KNN

Utilizes the Pima Indians Diabetes Database to predict outcomes. Involves data cleaning, feature normalization, and the k-Nearest Neighbors algorithm to create a diabetes outcome prediction model. Accuracy assessed using a confusion matrix to enhance healthcare decision-making.

Made with: **Python, scikit-learn, Pandas** (GitHub Link)

RESEARCH EXPERIENCE

Credentials Stuffing Attack Prevention Using Machine Learning This research aims to evaluate the performance of various clustering algorithms in detecting account login attempts by attackers using leaked user credentials. The algorithms will analyze web access log files for suspicious activity, particularly analyzing IP visit patterns and categorizing them into distinct groups (user and attacker). Additionally, the study focuses on enhancing the accuracy of identifying abnormal login patterns, thereby fortifying internet security and mitigating the impact of data breaches. Used Algorithms: Kmeans, DBSCAN, Gaussian Mixture Model, BIRCH, OPTICS

TEACHING AND TUTORING EXPERIENCE

Tutor for 11th-12th Grade Students (Information and Communication Technology) 2020 - 2022

- Assisted students in developing ICT skills and understanding software applications.
- Taught basic C programming and SQL to students with zero prior computer knowledge.

ACHIEVEMENTS

- Dean's List Honors
- Tuition fee scholarship
- CTO Forum Innovation Hackathon

SKILLS

Technical	Penetration Testing, Vulnerability and Risk Assessment, Incident Response
Offensive	Burp Suite Pro, Nuclei, Nmap, Nessus, SQLmap, Metasploit, MobSF
Defensive	NBA, Cortex XDR, Web Security Gateway, Graylog, Deep Security, Apex One, Wazuh, Snyc
Programming	Python, PHP, Bash, SQL, Laravel, React.js
Others	Docker, Grafana, Linux, Proxmox

EXTRA-CURRICULAR ACTIVITIES

Vice President of Publications, Dhaka College Science Club 2019 - 2020

- Led the Publications team and volunteered as an Editor of the 7th edition of Sputnik Magazine
- Contributed to organizing the 7th DCSC National Science Exposition in 2020.

REFERENCES

Dr. Abdus Salam

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