MD. SULTANUL ISLAM OVI

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ABOUT ME

An enthusiastic individual and always curious to learn new things, I have recently completed my B.Sc in Computer Science Engineering(CSE), aiming to pursue a teaching career in this domain. Being organized and mathematically-minded, I aspire to work for an institution that offers career growth and chances to learn and improve my knowledge.

WORK EXPERIENCE

Green University of Bangladesh, *Dhaka, Bangladesh* *June. 2021 – Present.*
Lecturer

- **Courses Taken:** Discrete Mathematics , Structured Programming, Structured Programming Lab, Algorithms Lab , Microprocessors & Micro-controllers , Microprocessors & Micro-controllers Lab , Computer Fundamentals & IT , Computer Fundamentals & IT Lab , Computer Networking Lab.
- A member of Systems & Security Research Cell.

PROFESSIONAL TRAINING

Green University of Bangladesh, *Dhaka, Bangladesh* *June. 2021 – September. 2021*
Certificate in Teaching and Learning

- Learnt Outcome Based Education (OBE) basics, Bloom Taxonomy, Tools for Questioning, Preparation of an Effective Lesson Plan, CO & PO Mapping, Rubrics for Assessment, etc.

Beetles Cyber Security Ltd, *Dhaka, Bangladesh* *November. 2019 – December. 2019*
Industrial Training

- In-house intern under the supervision of Chief Operations Officer Shahee Mirza.
- Learnt different attack and defense strategies in Cyber Kill Chain Model and MITRE ATT&CK Model in depth.
- Performed vulnerability analysis on different compromised systems using open source tools like Nmap, Metasploit, Wireshark, Nessus, etc.

EDUCATION

Islamic University of Technology (IUT), *Gazipur, Bangladesh* *January. 2017 – March. 2021*
Bachelor of Science in Computer Science and Engineering
CGPA: 3.87 / 4.00

New Govt. Degree College, *Rajshahi, Bangladesh* *June. 2014 – May. 2016*
Higher Secondary Certificate in Science
GPA: 5.00 / 5.00

Rajshahi Collegiate School, *Rajshahi, Bangladesh* *January. 2012 – February. 2014*
Secondary School Certificate in Science
GPA: 5.00 / 5.00

TECHNICAL STRENGTHS

Programming languages	Python, C / C++, Java, JavaScript, MySQL, Assembly Language
Frameworks	RYU(SDN), Scikit-Learn, TensorFlow
Tools and software	Cisco Packet Tracer, GNS3, Wireshark, FlowManager
Cloud Platform	AWS, Microsoft Azure
Network Emulator	Mininet

RESEARCH EXPERIENCE

A reliable system to detect security attacks in a scalable SDN architecture *Ongoing research*
Supervised by: Prof. Dr. Muhammad Mahbub Alam

- The goal is to develop a scalable SDN data plane verification method.
- Our work aims to implement an efficient mechanism to identify compromised SDN devices and specify active attacks.
- We are trying to solve the network scalability issue by making the verifier independent of controller performance.
- Our experiment involves both single and distributed controllers environment.
- Our current implementation is based on RYU framework on mininet network emulator.

PROJECTS

Gender Classification Model using Machine Learning ***Python, OpenCV, pandas, sklearn***

- Developed a model that can classify gender from an image or a video by using support vector machine (SVM).
- To get the best results from the SVM model, we tuned the Hyperparameters with Grid search method.
- To evaluate our model, we have generated confusion matrix, classification report, kappa score, ROC and AUC.

Online Bookstore ***Java, MySQL***

- Implemented a Bookstore website that allows the customer to browse books, view details, search books, write reviews and register account and purchase books.
- Created an admin panel that allows managers to manage books, customers, reviews and orders.
- A complete e-commerce website using Java Servlet, JSP, MySQL and Hibernate framework.

Simulation of a complete real network ***Cisco Packet Tracer***

- Implemented a complex network topology with different protocols in Packet Tracer.
- Enhanced security and Internet connectivity are also implemented.

Library Management System ***PL/SQL***

- It is implemented in ORACLE database using PL/SQL.
- The system can be accessed through command line interface.

Seat Plan Arrangement System ***MiniZinc***

- Modeled the problem as constraint satisfaction and optimization problem for AI implementation.
- Automated the system using constraint modeling language, MiniZinc.

REFERENCES

Prof. Dr. Abu Raihan Mostofa Kamal
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