Ataf Fazledin Ahamed

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Education

Bachelor of Science, Computer Science & Engineering   **2018-2023**
Bangladesh University of Engineering & Technology   Dhaka, Bangladesh
CGPA: 3.50/4.00
Notable Courses:
Computer Security, Computer Networks, Fault Tolerant Systems, Machine Learning, Algorithm Engineering

Research Experience

Interaction and NLP Based Sentiment Analysis of Bangla Food Review in Social Media
Undergraduate Thesis [GitHub] [Draft Paper]   2022 - 2023
Supervisor: Dr. Sadia Sharmin (BUET)

In this study, we collected data from different Facebook pages to analyze the sentiment of social media users regarding food review. For this, we used reactions and comments to analyze the sentiment in two independent ways.

Devising A Low-Cost and Portable System for Remotely Monitoring Water Quality in Real-Time
Microprocessor, Microcontroller, and Embedded Systems Project [GitHub] [Draft Paper]   2021
Supervisor: Dr. A.B.M. Alim Al Islam (BUET)

Based on our microcontroller project, we wrote a conference paper for our device and its capability to remotely monitor water quality as a cost-effective solution.

Projects

Project Alpha Omega by OpenSSF   [Link]
OpenRefactory | Open Source Security Foundation (OpenSSF)   2023 - Present

- Found and fixed bugs in different open source projects (Python, Go, Java)
- Working with my colleagues at OpenRefactory and OpenSSF
- Used own SAST tool to detect the bugs
- My individual contributions are here

The Clean Beach Project
OpenRefactory   2024 - Present

- A new project at OpenRefactory focusing on supply chain security
- Working as a project lead to develop the entire system
- Collaborating with Apache Airflow, Jenkins library teams on securing their dependencies

Sastquatch   [Link]
Personal Project   2024 - Present

- Static analysis tool based on CodeQL and Semgrep
- Web-based UI to check scan results (Work in progress)
- Already using it to scan popular Go and NPM packages

Technical Skills

- Programming Languages : C/C++, Python, Java, JavaScript, Go
- Development Tools : Git, Bash, Docker, Jenkins
- Frameworks : Flask, Django, React, NextJS, ExpressJS
- Databases : MySQL, PostgreSQL, MongoDB
- Security Tools : BurpSuite, Wireshark, dnSpy, Ghidra, Nmap, CodeQL
- ML Frameworks : Tensorflow, Pandas

Language Proficiency

TOEFL

Marks 110 / 120   October 22, 2023

Reading: 30, Listening: 28, Speaking: 28, Writing: 24

Achievements

- Achieved **3rd position** in National Cyber Drill 2022 as team BUET Fsociety   [Link]
- Achieved **13th position** in University Cyber Drill 2022 as team BUET Fsociety
- Achieved **6th position** in National Cyber Drill 2021 as team Knight Squad
- Received a Military Appreciation Coin from the **US Embassy Dhaka**   [Link]

Extra Curricular Activities

BUET Entrepreneurship Development Club

President   May 2022 - May 2023

As a President in the final year, I along with club members organized career talks and seminars for recent graduates. For the current students, we organized workshops and meetup sessions with industry professionals.

BUET Cyber Security Club

Founding Vice President   Nov 2022 - May 2023

Along with a group of friends and juniors interested in cyber-security, I led the foundation of the first cyber security club of BUET. After the foundation, we organized two seminars, one workshop, and an intra-university capture-the-flag competition.

References

Dr. Sadia Sharmin
Associate Professor at Department of CSE, BUET
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Dr. Md. Shohrab Hossain
Professor at Department of CSE, BUET
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