

MD MONIRUL ISLAM

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PROFESSIONAL SUMMARY

Cybersecurity student with hands-on experience in Wireshark, Autopsy, and Metasploit. Pursuing a cybersecurity-focused PhD at the University of Nebraska Omaha. Eager to secure systems, learn from professionals, and stay updated in a dynamic internship.

EDUCATION

PhD in Information Technology

Jan 2023 - Present

- University of Nebraska at Omaha, NE, USA.

Bachelor of Science in Electronics and Communication Engineering

Apr 2015 - Mar 2019

- Khulna University of Engineering & Technology, Khulna, Bangladesh.

PROFESSIONAL EXPERIENCE

Embedded Systems Engineer

Feb 2020 - Jun 2022

Vertical Innovations Ltd

Dhaka, Bangladesh

- Developed firmware for IoT devices, utilizing MQTT, OTA technologies.
- Actively developed IoT-based vending machines from concept to production.
- Managed a team of 6 to maintain the smooth operation of 100+ vending machines.
- Proposed, planned, and executed a \$20,000 water treatment plant IoT automation project.

ACADEMIC EXPERIENCE

Graduate Research Assistant

Jan 2023 - Present

College of Information, Science & Technology, University of Nebraska at Omaha

Omaha, NE, USA

- Assessing cyber security vulnerabilities in edge computing sensors and recommending countermeasures.
- Developing a secure framework for real-time data collection from edge sensors, ensuring continuous bridge health monitoring.

ACADEMIC PROJECTS

Copyright Infringement Analysis with Autopsy

- A suspected PC was examined due to alleged illegal possession of copyrighted digital content.
- Analyzed hard disk with Autopsy, systematically searching the entire hard disk for relevant digital content.
- Successfully recovered suspected file, following evidence preservation protocols for data integrity.
- Documented analysis thoroughly, ensuring comprehensive records for legal purposes.
- Prepared detailed report, summarizing investigation results with crucial evidence for legal support.

SKILLS

Tools

Autopsy, Wireshark, Metasploit

Programming Language

C, C++, Python

Scripting Language

MATLAB

Microcontrollers

ESP8266, ESP32, Atmega328P, STM32F103C8T6

Peripherals

UART, Oscillator, I2C, Output Compare, Timer, Interrupt