Sristi Mitra

Nationality: Bangladeshi   **Date of birth:** 11 Aug 1999

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🌐 **Website:** https://sristi-mitra.netlify.app/

📍 **Home:** Istanbul (Türkiye)

ABOUT ME

Motivated cybersecurity professional currently pursuing a Joint Master's in Applied Cybersecurity (Erasmus Mundus CYBERMACS, KHAS '25 & UKIM '26). Holder of a full scholarship and a Bachelor's degree from Delhi Technological University with a strong foundation in computer engineering. Experienced in SOC operations and security tools (Wazuh, Kibana, Grafana, Hive, Shuffle), with research publications in Information Security and Machine Learning. Proficient in Python, SQL, networking protocols, and web technologies. Strong communicator, quick learner, and team player seeking to contribute to cybersecurity and SOC roles with practical expertise and a research-driven mindset.

WORK EXPERIENCE

🏢 *FSN IT Solutions* – Dhaka, Bangladesh

City: Dhaka | **Country:** Bangladesh

Cyber Security Intern

[18 Mar 2024 – 30 Jun 2024]

- Assisted in configuring and managing open-source Security Operations Center (SOC) tools including Wazuh, Kibana, Hive, Shuffle, and Keycloak
- Monitored and analyzed security events, supported incident response, and contributed to threat detection workflows
- Participated in the deployment and optimization of security automation and orchestration processes
- Gained hands-on experience in endpoint monitoring, log analysis, and use of SIEM dashboards for real-time threat visibility
- Documented SOC procedures, reported security incidents, and collaborated with cross-functional teams to enhance operational efficiency

🏢 *SARV Tracking Solution Pvt Ltd.* – New Delhi, India

City: New Delhi | **Country:** India

Software Developer Intern

[May 2022 – Jul 2022]

- Managed and maintained the backend infrastructure of the company's website, ensuring stability and security
- Designed, developed, and optimized REST APIs and gateways for advanced car security services with a focus on scalability and performance
- Collaborated across teams to integrate third-party services, enhance system robustness, and document backend workflows

EDUCATION AND TRAINING

Joint Master's in Applied Cybersecurity

Kadir Has University [2 Sep 2024 – Jun 2025]

City: Istanbul | **Country:** Türkiye | **Website:** https://www.khas.edu.tr/ | **Field(s) of study:** Cybersecurity | **Level in EQF:** EQF level 7

Bachelor of Technology (B.TECH)

Delhi Technological University [Aug 2019 – Jul 2023]

City: New Delhi | **Country:** India | **Website:** www.dtu.ac.in | **Field(s) of study:** Computer Engineering | **Final grade:** CGPA 8.53 out of 10.00 | **Level in EQF:** EQF level 6 | **Type of credits:** Indian Credit System | **Number of credits:** 172

PUBLICATIONS

[2025]

Reputation and Energy-Aware Dynamic Hybrid Consensus (READ-HC) Model for IIoT

Introduces a novel hybrid blockchain consensus tailored for Industrial IoT environments that integrates Practical Byzantine Fault Tolerance, Proof of Reputation, and energy-aware node selection to achieve high throughput (~3000 tx/sec), low latency (~75 ms), enhanced security, and ~40-70% lower energy consumption compared to traditional PoW/PBFT mechanisms

Authors: Sristi Mitra, Vaishanvi Santosh Sable, Danium Syed | **Journal Name**: The Journal of British Blockchain Association

[2023]

Multifactor Asymmetric Key Encryption MAKE for mutual authentication in IoMT

We proposed a multifactor-oriented protocol which provides mutual authentication for transmission of data between patient and doctor by maintaining secrecy among smart card, sensor node, server, gateway and IoMT devices. We use the concept of assymetric key, XOR operation and the fuzzy extractor for better and more secure encryption. We proved the protocol formally by BAN logic and informally and then finally calculated the computational cost.

Sristi Mitra; Zishnendu Sarker; Priyanka Patel; Pawan Singh Mehra (2023)

[2023]

A comprehensive review on Compilers in Neural Network

This summary paper will talk a lot about neuromorphic hardware, neural network compilers, or even an automatic RTL compiler to improve the scalability of the compiler. Again, we will also discuss neural code generation, the CNN accelerator, and more about feed-forward neural for predicting memory.

Zishnendu Sarker; Sristi Mitra; Sonal Gandhi (2023)

[2022]

Comparative Analysis on Usability and Quality assurance of agile methodology

We have narrowed it down to a few research papers over the years where we have shown studies of different forms, methods, and tools to incorporate to make software development more effective and efficient for the developers and also the masses. Usability can reduce risks and improve product quality, where the inter-relations and the inter-dependencies between quality factors also play a huge role.

Zishnendu Sarker; Sristi Mitra (2022)

PROJECTS

[Dec 2024 – Current]
Home Lab Security Implementation*
(Work in progress) Implemented a comprehensive home lab security project involving the design and setup of a secure network using Proxmox with virtual machines running Windows Server and Linux. Deployed and configured SIEM tools like Wazuh and Splunk for monitoring, and utilized Grafana and Kibana for real-time visualization in a custom dashboard. Conducted regular vulnerability assessments with The Hive and Shuffle, and developed incident response procedures for various attack scenarios.

[Jan 2023 – Mar 2023]
Portfolio
Created with precision, my personal portfolio is a reflection of my journey, highlighting my projects and professional prowess. I specialize in implementing successful SEO strategies that help improve Google rankings and increase website visibility. I use HTML, CSS and Bootstrap to achieve these objectives. You can take a look at my portfolio to see examples of my creative and technical skills, which demonstrate my dedication to excellence in the digital realm.

Link: https://github.com/sristiM123/Personal-Portfolio

[May 2022 – Jul 2022]
Sign Language Detection using YOLO V5
The YOLO-Based Sign Language Recognition project aims to detect and recognize sign language gestures in real-time using the YOLO object detection framework.

Link: https://github.com/sristiM123/SIgn-Language-Recognition-using-YOLO-V5

CERTIFICATION

[19 Jun 2025 – 19 Jun 2028]
Cisco Certified Network Associate (CCNA)

[2 Mar 2021]
Introduction to Cybersecurity- Cisco Networking Academy

SKILLS

Programming Languages

Python (computer programming) / SQL / Linux (Terminal Commands, Bash/Shell) / Latex / C/C++ / HTML / CSS / Bootstrap

Operating System

Windows / Linux / Kali Linux

Security Tools

penetration testing tool / Wireshark / Burp suite / SIEM Tools: Wazuh, OSSEC, Splunk

Soft Skills

Leadership / Team-Work / Flexibility / Communication / understand spoken English / interact verbally in English

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English	Turkish
LISTENING C2 **READING** C1 **WRITING** C1	**LISTENING** A1 **READING** A1 **WRITING** A1
SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2	**SPOKEN PRODUCTION** A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

VOLUNTEERING

[Dec 2020 – Aug 2022] Dhaka, Bangladesh
President and Representative, Dhrubotara Youth Development Foundation-India
- Leading the core committee of DYDF-INDIA to drive youth skill development and cross-border social impact initiatives in Bangladesh and India
- Representing the organization at national and international platforms, advocating for youth empowerment and bilateral collaboration
- Planning and executing community projects and events while engaging with officials and stakeholders to foster regional cooperation

HONOURS AND AWARDS

[2 Sep 2024] Erasmus Mundus Association Funded by European Union
CYBERMACS Joint Masters Scholarship Program
Awarded a fully funded Erasmus Mundus scholarship for the CyberMACS Joint Master's Program (2024–2026), with studies in Istanbul and Skopje. The program focuses on cybersecurity in critical infrastructures and Industry 4.0, combining technical, industrial, and risk management training to prepare professionals for evolving cyber threats.

[Jul 2019] Indian Council for Cultural Relations (ICCR)
Government Scholarship Scheme - ICCR
Received a fully funded scholarship from the Indian Council for Cultural Relations (ICCR) to pursue a Bachelor's degree in 2019. Gained cross-cultural exposure by engaging with students from SAARC and African countries, enhancing my global and cultural awareness.

RECOMMENDATIONS

Name: Dr. Pawan Singh Mehra | Assistant Professor
Department of Computer Science and Engineering
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Name: Dr. Rajeev Kumar | Assistant Professor
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