

Saurav Ghosh

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EDUCATION

Master of Science in Applied Computer Science, Southeast Missouri State University, USA

May 2025

- Coursework: Information Security in System Admin, Computer Network Security and Defense, Intro to Cybersecurity.
- Research Poster: **STL Cybersecurity Conference** at UMSL; Access Control Schemes for Residue Class Based P2P Network.

Bachelor of Science in Computer Science, BRAC University, Bangladesh

Sep 2021

- Coursework: Discrete Mathematics, Artificial Intelligence, Neural Networks, Compiler Design, Computer Networks.
- Publication: Proceedings of the **ICSIM**, January 2023, pp. 33-43, DOI: [dl.acm.org/doi/10.1145/3584871.3584876](https://doi.org/10.1145/3584871.3584876)

CERTIFICATIONS

- **Google Cybersecurity Professional Certificate** | 3/8 Courses; Expected Completion: Dec 2023

SKILLS

- **Programming:** Java, Python, HTML, C, C++
- **Operating Systems:** Windows, Linux (Ubuntu, Kali)
- **Tech:** Microsoft Office, Confluence, Slack, Anydesk
- **Tools:** TensorFlow, PyTorch, Google Colab, Keras, Wireshark, MySQL, LaTeX, Apache Tomcat, Xampp.
- **Compatibility:** Eclipse, NetBeans, Visual Studio, Anaconda Navigator, VirtualBox, Android Studio.

EXPERIENCES

Career Ambassador; Office of Career Services, Southeast Missouri State University

9/2023 - Present

- Provided guidance to students in developing professional skills, including crafting resumes and cover letters, utilizing **Microsoft Office Suite** for document creation, and demonstrating **attention to detail** and **problem-solving abilities**.
- Engaged in networking opportunities with employers and campus stakeholders, leveraging strong **networking** and **communication skills** to create valuable connections for students and the institution.
- Collaborated effectively with the Career Services team, utilizing **teamwork** skills to meet various departmental needs.
- Enhanced students' professional online presence on social media platforms like LinkedIn and Twitter.

Assistant Manager, IT; Dzins Myth Ltd., Bangladesh [\$5M Chemical Industry Startup]

1/2023 - 06/2023

- Implemented and configured firewalls, and conducted security enhancements for office equipment, operating system expertise in **Windows**; resulting in a 25% improvement in overall security measures, using **pfSense**, **Google Authenticator & Bitdefender**; monitoring network traffic with **Wireshark** for vulnerability identification.
- Managed page updates for the company's website using **Visual Studio**, **GitHub**, **Cloudflare** with proficiency in **HTML** for web development; resulting in a 20% increase in website functionality and security.
- Reviewed and established protocols and disaster recovery plans, used cloud solutions i.e., **Google Cloud** for hosting backup solutions; leading to a 40% increase in data safety & integrity.
- Negotiated contracts and established effective communication channels with foreign stakeholders, utilizing communication tools like **Slack**, resulting in a 10% improvement in business relations.

IT Officer

3/2022 - 12/2022

- Managed IT infrastructure, i.e., hardware, software, & networking equipment, resulting 15% improvement in efficiency.
- Provided technical assistance to staff, including user accounts & access management, leading 20% reduction in IT issues.
- Supervised e-records of B2B transactions, including invoices, shipping documents, and custom declarations, resulting in a 20% improvement in data management efficiency, utilizing tools like **Sharepoint**.
- Demonstrated strong teamwork and problem-solving skills in cross-functional collaboration, leading to a 35% improvement in project collaboration with peers.

PROJECTS

- Automated Hacking & Vulnerability Management using ProQuest, CVE® Program, nmap Scans, Security Metrics.
- A Digital Food Restaurant website using Servlet, MYSQL, MVC Architecture, Tomcat, Eclipse, Xampp, CSS, JSP.
- A Hospital Appointment Management System using PHP, MySQL, Database, HTML, Xampp, Web API, Dr. Java.
- Calculator built with the MVC pattern Using Android Studio, XML, Python, Netbeans.
- Line Follower Robot using Arduino UNO, IR sensor, and L298 motor driver.
- E-Checking System for Public Transportation using Python and OpenCV.