

Souvik Das

Dhaka, Bangladesh | +8801988912542 | souvik.piyal@gmail.com

[LinkedIn](#) | [GitHub](#) | [Google Scholar](#) | [Website](#)

Education

▪ B.Sc. in Computer Science and Engineering (March 2018 - May 2023)

Bangladesh University of Engineering and Technology (BUET)

CGPA: 3.85/4.00 (3.93 avg. in last two semesters)

- ✓ Graduated with Honors
- ✓ Received Dean's Award for academic excellence

Research Experience

▪ [On Detecting Malicious Code Injection by Monitoring Multi-Level Container Activities](#)

This is my undergraduate thesis work. It aims at addressing unique challenges in containerized environments and building a robust and efficient intrusion detection system. Here we worked with identifying the characteristics of system calls in a container to detect malicious code injection attacks. This is a collaborative work with Concordia University, Canada.

Publications

▪ Md. Olid Hasan Bhuiyan, **Souvik Das**, Shafayat Hossain Majumder, Suryadipta Majumdar, and Md. Shohrab Hossain, "[On Detecting Malicious Code Injection by Monitoring Multi-Level Container Activities](#)", The 14th International Conference on Cloud Computing and Services Science (CLOSER 2024), Angers, France, 2-4 May, 2024. [An outcome of undergrad research]

▪ MD. Sabbir Hosen Pulok, Anusree Sen, **Souvik Das**, Farea Farhana Nishita, & MD. Mushfiquzzaman. (2022), "[MODELING SUSTAINABLE CHALLENGES TO WASTE REDUCTION IN THE FOOD INDUSTRY](#)", Supply Chain Insider | ISSN: 2617-7420 (Print), 2617-7420 (Online), 7(1). [Extracurricular activity]

Work Experience

▪ Assistant Programmer (Assistant Director) (June 2024 - Present)

Bangladesh Computer Council, ICT Division,

Ministry of Posts, Telecommunications and Information Technology, Government of Bangladesh

- ✓ Worked at Software and Hardware Quality Testing & Certification Center
- ✓ Engaged in quality testing (functional, VAPT) of all kinds of software bought by different ministry

▪ Programmer (Contractual) (June 2023 - June 2024)

Grameen Bank, Bangladesh

- ✓ Worked at Automated ICT System Project of this **Nobel Laureate Organization**
- ✓ Engaged in full-stack development of banking software, mostly in C#

Research Interests

- Cybersecurity
- Artificial Intelligence
- Human-Computer Interaction

Undergraduate Projects

- **Handwritten Sentence Recognition (2023)** [[GitHub](#)]
 - ✓ Worked with two machine learning models (ResNet and CRNN) using TensorFlow.
- **University Management System (2022)** [[GitHub](#)] [[Demo](#)]
 - ✓ Developed a web application using Node.js, React, Cassandra and Kubernetes
- **Moodle (2021)** [[GitHub](#)] [[Demo](#)]
 - ✓ Developed a responsive application of teacher-student communication platform with Django, HTML and Oracle
- **Battlefield Warriors (Multiplayer Minigame) (2019)** [[GitHub](#)] [[Demo](#)]
 - ✓ Developed an online multiplayer game with socket programming using Java and JavaFX
- **Avengers Endgame (Minigame) (2018)** [[GitHub](#)] [[Demo](#)]
 - ✓ Developed a mini game based on iGraphics in C++
- **Automatic Flood Detection System (2022)** [[GitHub](#)] [[Demo](#)]
 - ✓ Built a hardware project with Arduino, Water sensor, Rainfall sensor, Waterflow sensor and GSM module
- **Smart Entrance & Automated Hand Sanitizer (2021)** [[GitHub](#)] [[Demo](#)]
 - ✓ Built a hardware project using Arduino, ATmega32, Temperature sensor, Motion sensor, Ultrasonic sensor, etc.

Technical Skills

- **Programming Languages:** Assembly, C/C++, Java, Python, JavaScript, C#, SQL
- **Documentation and Presentation Tools:** LaTeX, MS Office
- **Software Development Framework:** Node.js, React, Django
- **DBMS Tools:** Oracle, Cassandra
- **Simulation Tools:** NS3, Proteus, Cisco Packet Tracer
- **Computer Forensic Tools:** Strace, Sysdig, Wireshark, Burp Suite
- **Others:** Kubernetes, GitHub, HTML/CSS, xv6 etc.

Honors and Awards

- **University Merit Scholarship**
 - ✓ 3 times
- **Dean's List Award**
 - ✓ In all academic years of university
- **RISE(BUET) Research Grant**
 - ✓ Got selected for a research grant for outstanding research activities
- **National Olympiads**
 - ✓ National Math Olympiad (1st runner-up, 1 time)
 - ✓ National Physics Olympiad (Winner, 2 times)
 - ✓ National Science Olympiad (Winner, 3 times)
 - ✓ HSBC Language Competition (Champion, 1 time)

Certificates

- **Certified Supply Chain Analyst (CSCA™) (2021 – Present)**
 - ✓ By ISCEA - International Supply Chain Education Alliance
 - ✓ Stood 1st in the batch with 97% marks
- **The Fundamentals of Digital Marketing (2020 – Present)**
 - ✓ By Google Digital Garage, Credential ID: S7V WG2 S5F

Teaching Experience

- **Engaged in mentoring activities (2017-2022)**
 - ✓ Udvash Academic & Admission Care, Mymensingh Branch, Bangladesh.
 - ✓ Sunrise Coaching Centre, Mymensingh, Bangladesh.

References

▪ **Dr. Md. Shohrab Hossain**

Professor,
Department of Computer Science and Engineering,
Bangladesh University of Engineering and Technology, Dhaka-1000.
Cell: +8801819250196
Email: mshohrabhossain@cse.buet.ac.bd

▪ **Dr. Tanzima Hashem**

Professor,
Department of Computer Science and Engineering,
Bangladesh University of Engineering and Technology, Dhaka-1000.
Cell: + 88028623089
Email: tanzimahashem@cse.buet.ac.bd

▪ **Dr. Suryadipta Majumdar**

Associate Professor,
Concordia Institute for Information Systems Engineering (CIISE),
Concordia University, Montréal, Quebec, Canada.
Cell: 514-848-2424 ext 8580
Email: suryadipta.majumdar@concordia.ca