Souvik Das

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LinkedIn | *GitHub* | *Google Scholar*

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), Anges, 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**

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