Shishir Zaman

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Gender: Male. **Date of Birth:** 8th July, 1996. **Marital Status:** Single **Nationality:** Bangladeshi

OBJECTIVE STATEMENT

A result-driven young professional with an interest in research and development for human welfare and well-being. Ambitious, Hardworking, a fast learner and a team player. Willing to learn and explore new skills to constantly improve and gain new experience.

EDUCATION

- **Bishop's University, Canada**   **January 2024 - Present**
  M.Sc. Computer Science and Engineering (Thesis-based)

- **East West University, Bangladesh**   **October 2021**
  B.Sc. Computer Science and Engineering   CGPA (3.56/4.0)

- **Honors and Awards**: Medha-Lalon Fund (university scholarship) for achieving a CGPA of 3.5 or above on average for three consecutive semesters.

CERTIFICATIONS

- Programming for Everybody (Getting Started with Python) (Coursera)   2020
- Mathematics for Machine Learning: Linear Algebra (Coursera)   2020
- Introduction to TensorFlow for Artificial Intelligence,   2021
  Machine Learning, and Deep Learning (Coursera)

WORKSHOPS/CONFERENCES

- **International Conference on Machine Intelligence and Data Science Application (MIDAS), 2021:** I joined as a representative of our paper and presented our paper in the conference.
- **"Asho Robot Banai"- First ever reality TV show in Bangladesh on Robotics at East West University (organized by CSE Department), 2018:** I work as a volunteer of the event.

PUBLICATIONS

Zaman, S., Nayeem, M., Tatrapi, R., & Ripon, S. (2022). Deep Learning Approach for Electricity Load Forecasting Using Multivariate Time Series Data. In Machine Intelligence and Data Science Applications (pp. 805-818). Springer, Singapore.

WORK EXPERIENCE

East West University, Bangladesh (2021)

Teaching Assistant: I instructed undergraduate students on Structured Programming, Object-oriented Programming and Operating System, respectively. I work as a tutorial assistant at the Department of Computer Science and Engineering in East West University, where I mark undergraduates' assignments, tests, exams, reports, and term papers. I also work as a lab assistant in the same department.

BJIT Limited (Software Engineer) (2022-2023)

SDNA Remote Camera Tool (RCT): I worked for **Sony Digital Network Application (SDNA)**, Japan as an offshore engineer of BJIT Limited. My project role was to update the Remote Camera Tool application with new features and resolve bugs. It is a desktop application and was built using Microsoft Foundation Classes (MFC). This tool's function is to remotely operate supported Sony cameras with all functionalities.

OSHKOSH Snow Truck Vehicle Interface Module (VIM): I worked for **OSHKOSH Corporation, USA** as an offshore engineer of BJIT Limited. Performed testing on new CL-450 CAN BUS module from HED Inc. Migrated old VIM to the new CL-450 module. Implemented and tested all changes. Updated VIM to be used by snow trucks developed by OSHKOSH Corporation, USA.

ATM Machine: Created a physical demo of an ATM system. The demo included reading and writing to programmable RFID cards, Real Time Operating System (RTOS), IR sensors and Sonar sensors.

PERSONAL SKILLS

- **Technical Skills**

  - **Language:** C, C++, Python, JavaScript, PHP, HTML, CSS, Bootstrap, Char.js.
  - **Data Analysis, Processing and visualization:** Pandas, SciPy, Matplotlib, Seaborn, MS Excel.
  - **Framework:** Scikit-learn, Keras, Tensorflow 2, Django, React.
  - **UML diagrams Tools:** Draw.io, Lucid chart, Visual Paradigm.
  - **Database:** Oracle, MySQL, Sqlite3.
  - **Coding Standard:** Barr-C, MISRA-C.
  - **Hardware:** ATmega32, Arduino, STM32, ESP32, CL-450(HED).
  - **Simulator:** Orchestra, PCAN, Proteus, EMU8086.
  - **Operating System:** Windows, Linux (Ubuntu).

- **Other Skills**

  - Working with metal and acrylic parts.
  - Good knowledge of Schematics diagrams and data sheets.
  - Good at spoken and written English.
  - Fast learner.
  - Work well under pressure.
  - Good at understanding others.
  - Willing to take criticism and improve on them.

ROLES AND RESPONSIBILITIES

- Volunteer Member, East West University Robotics Club   2018-2020
- Weekly competitive programing participant,   2020
  East West University Computer Programming Club

PERSONAL PROJECTS:

- **Emotion Detection from Text (Twitter Tweets):** Natural Language Processing based project which detects emotion of the text writer from the text.
  Tools: WordNetLemmatizer, Bag of Word, TF-IDF, SVM, Multinomial NB, Random Forest.

- **Spam email detection using MNB (Scratch):** Build multinomial Naïve Bayes model from scratch to detect whether an email is Spam or not.
  Tools: Pandas, SciPy, Multinomial NB (from Scratch).

- **TV Shows Recommendation System:** Web based recommendation system that recommends users TV shows according to their subscribed TV shows.
  Tools: HTML5, CSS, Bootstrap, JavaScript, PHP, MySQL, Collaborative Filtering method.

- **Corona Updates and Test Management System:** Web based online corona test management system from where users can view the visualized world and countries corona updates as well.
  Tools: HTML5, CSS, Bootstrap, JavaScript, Ajax, Chart js, Django and Sqlite3.

REFERENCES:

Available on request.