

## Shishir Zaman

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

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### 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

- **Bishops University, Canada** **January, 2024.**  
M.Sc. Computer Science (pursuing) CGPA (4.00/4.00)
- **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, Machine Learning, and Deep Learning (Coursera) 2021

### 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. I had updated the Remote Camera Tool with new features and resolved previous bugs. It is a desktop application and is 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, HTML, CSS, Chart.js, LATEX.
  - **Data Analysis, Processing and visualization:** Pandas, SciPy, Matplotlib, Seaborn.
  - **Framework:** Scikit-learn, Keras, Tensorflow 2, Django.
  - **UML diagrams Tools:** Draw.io, Lucid chart, Visual Paradigm.
  - **Database:** Oracle, MySQL, Sqlite3.
  - **Coding Standard:** Barr-C, MISRA-C.
  - **Hardware:** ATmega32, Arduino, STM32, ESP32, Beagle-bone Black, 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 programming 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.