

# MD. ARAFAT HOSSAIN SIAM

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## CARRIER OBJECTIVE

Looking for a challenging work in a respectable firm or organization where I can utilize my technical, database, programming skills and computer skills to good use while also learning about new trends in the reputable industry. I'd like to begin my career as an entry-level software engineer, web developer, computer related work or similar job with a reputable company.

## EDUCATION & QUALIFICATION

2018 – 2022	<b>EAST WEST UNIVERSITY</b> B.Sc. in Information and Communication Engineering CGPA: <b>3.95</b> (out of 4.00) Dept. of Electronics and Communications Engineering
2017	<b>RAMERKANDA ISPAHANI COLLEGE</b> HSC in Science GPA: <b>4.92</b> (out of 5.00) Dhaka Board
2015	<b>ISPAHANI HIGH SCHOOL</b> SSC in Science GPA: <b>5.00</b> (out of 5.00) Dhaka Board

## EXPERIENCE

### FROM 2022 – TO 2023

- **UNDERGRADUATE TEACHING ASSISTANT (UTA)**
  - I. Created lesson plans responsive to individual students' needs in relation to their courses provided by the course instructor.
  - II. Provided technical support and necessary instructions governed by the course instructor.
  - III. Conducted conferences with students for each major paper assignment to address individual goals and progress.
  - IV. Encouraged students to develop writing goals and then work to tailor each assignment to these goals.
  - V. Used online learning management systems to organize content and communicate with students outside of class to encourage clarity and transparency.
- **GRADUATE TEACHING ASSISTANT (GTA)**
- **DIPLOMA IN COMPUTER (6 MONTH)**

## AWARDS/ACHIEVEMENTS

Merit Position: 1<sup>st</sup>, B.Sc. in ICE (Summer-18), Dept. of ECE at East West University

Medal: **Summa Cum Laude**

## SCHOLARSHIPS

- **50 %** Merit Scholarships from 2019 to 2020 (Dean's List)
- **100 %** Merit Scholarship from 2020 to 2021 (Full Scholarship)
- **100 %** Merit Scholarship from 2021 to 2022 (Full Scholarship)

## PROJECTS

- **Amazon Simple Website:** In this project, I have designed to make a look like amazon site with some information. From API I call the dataset and show them as products cart with Add to Cart and store them in Local Storage when I purchase any product. Also, I can remove the product from my cart if I want. I used route to go to another page from one page. To make this project I have used React and JS.
- **Panda Commerce & Hot Gadgets:** In these projects, I tried to make simple commercial type of websites using HTML, CSS, Bootstrap & JavaScript. There are different types of categories for different items which can we find easily.
- **E-school Website:** I have designed a website for educational purpose using HTML, CSS, Bootstrap, JavaScript.
- **Responsive Websites:** Penguin Responsive Website Using Tailwind CSS, Bikers Zone Using Bootstrap, G3 Architect Website, Geometry Genius Website Using Bootstrap & Legal Solution Website Using Tailwind CSS.

- **Simple Portfolio:** In this project, I have made a simple portfolio for my personal use.
- **Some Small Projects for Website Design & Development:** Simple Calculator, Pin Matcher, Shopping Cart, Issue Tracker, Weather Forecast, Some Responsive Websites, Amazon type simple site, Responsive Website using Tailwind CSS. These projects are done by using HTML, CSS, Tailwind CSS, Bootstrap & JavaScript.
- **SQL for Medical Dataset:** I have determined many information from a medical dataset using SQL.
- **API for Websites:** In some projects, I have load data from different sites and show them in my website depending on their category and also, I made some dataset for the items so that I can load them in my websites if I want.
- **Virtual Vending Machine Using Java:** I have designed a vending machine which is an automated device that sells goods to customers such as food, drinks, cigarettes, and lottery tickets in exchange for cash, a credit card, or other forms of payment.
- **Virtual Assistant by Using Python:** In this project, I have designed a bot. When I want to go google, LinkedIn, Facebook, YouTube, WhatsApp, I can do that only by talking. Also, I can search about anything from google easily.

## PROGRAMMING LANGUAGES & SOFTWARES SKILLS

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- **Programming Languages:** C, C++, Java, Python, SQL/MySQL Database, HTML, CSS & JavaScript
- **CSS Framework:** Bootstrap & Tailwind
- **Front-end & JavaScript Library:** ReactJS
- **Technical Skills:** Website Design & Development, Data Extraction, Deep Learning, Machine Learning, Data Analysis & Analytics, Data Analysis & Visualization, Information Theory & Coding
- **Hardware Programming Languages:** Verilog, Intel 8086 Microprocessor, Arduino, Design & Simulation, Electronics & Digital Electronics
- **Networking Software:** CISCO
- **Programming Software/Laboratory:** Anaconda Cloud, Visual Studio Code, Jupyter Notebook, Spyder, TensorFlow, Keras, OpenCV, Eclipse, Netbeans and Codeblocks
- **Data Analysis and Visualization Software:** MATLAB, Octave
- **Microsoft Office Suite:** Word, Excel & PowerPoint
- **Social Media Promotion:** Facebook, Twitter and LinkedIn
- **Typesetting Programming Language:** LaTeX
- **Electrical Circuit Simulation Software:** PSpice, Proteus, Simulink
- **Digital Logic Design Software:** Altera Quartus
- **Others Software:** Xammp
- **Data Collection & Analysis:** Competent in gathering, analyzing, and reporting data to improve the effectiveness of any programs.
- **Problem-Solving & Critical Thinking:** Capable of developing practical solutions for any community challenges.

## RESEARCH PAPER & THESIS

My topic name was “**Analysis on Intrusion Detection System Using Machine Learning (ML) & Deep Learning (DL) Models**”. In this paper, I have proposed two DL based model i.e., Long-Short Term Memory (LSTM) and Feed Forward Neural Network (FNN) with five ML based model i.e., Random Forest (RF), Logistic Regression (LR), Support Vector Machine (SVM), Naïve Bayes (NB) and K-Nearest Neighbor (KNN), these algorithms indicate a considerable improvement in intrusion detection performance. In this paper, I have worked with big dataset and I analyzed these data.

## PROFESSIONAL MEMBERSHIPS

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- **General Member** at East West University Telecommunication Club (EWUTC)
- **Volunteer Member:** Volunteer service in National Entrepreneurship Summit 2022 Powered by e-courier & Pickaboo organized by East West University Telecommunications Club.

## REFERENCES

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