

Raiyan Ahmed

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SUMMARY

I studied computer engineering and computer science at the Islamic University of Technology. My thesis was on the development of a prototype-based detection system that employs Machine Learning algorithms to recognize violence in video data. I have worked for Last Call Media for almost two years as a Software Engineer.

WORK EXPERIENCE

Last Call Media (Talentedcube)

Software Engineer

Remote

July 2021 - present

Talentedcube was the name of the Bangladeshi remote team that I was a member of. I was responsible for contributing to the projects of Last Call Media and the TalentedCube initiatives. I had the opportunity to work on some of their client projects.

- **Protrain:** This is a health training platform where professionals charge you for guiding your exercises. This is aimed to be a substitute for physical gyms. I have actively worked in building the front end and the back end. Technologies used: NextJs, Cypress, Jest, Github, Jira, and Vercel. [Click here to view the prototype.](#)
- **Broadcast:** This helps our client to view and approve the time logs in Harvest. I have actively worked on building cron jobs and different APIs. Technologies used: NextJs, Cypress, Jest, Github, Jira, and Vercel. [Click here to view the live preview.](#)
- **CubeBurst:** This website can host any NextJs website through them. I have actively worked on building the front end and back end. Technologies used: NextJs, NestJs, AWS, Cypress, Jest, Github, and Jira. [Click here to view the prototype.](#)
- **Seramount:** This website was built for the client to promote their organization. Technologies used: WordPress, PHP, Lando, and Github. [Click here to view the live preview.](#)

Data-Edge

Software Engineer Intern

Dhaka, Bangladesh

November 2019 - December 2019

During this 2 months internship, I have been assigned to work under a supervisor. My prime roles were to get familiar with Asp .Net framework and test their applications. Finally, I had to come up with a proposed solution.

EDUCATION

B.Sc. in Computer Science and Engineering

2017-2021

Islamic University of Technology

CGPA: 3.52 out of 4

Thesis: Efficient Two-Stream Network for Violence Detection Using Separable Convolutional LSTM

Higher Secondary School Certificate

2016

St. Joseph Higher Secondary School and College

GPA: 5 out of 5

Secondary School Certificate

2014

St. Joseph Higher Secondary School and College

GPA: 5 out of 5

RESEARCH EXPERIENCES

Researcher, Computer Vision Lab (CVLab)

Islamic University of Technology (IUT), Bangladesh

- Area of work: Violence detection from video footage
- Published paper in **2021 International Joint Conference on Neural Networks (IJCNN)**
- The paper has 16 citations. [Click here to read the full paper](#)

PUBLICATIONS

“Efficient Two-Stream Network for Violence Detection Using Separable Convolutional LSTM” (July 2021).
In: *2021 International Joint Conference on Neural Networks (IJCNN)*. DOI: [10.1109/IJCNN52387.2021.9534280](#).

PROJECTS

Violence detection

[Link to Github](#)

- CNN and sepConvLstm are used to extract features that are passed to the classifier
- Achieved 89.75 percent accuracy

Cat and dog detection

[Link to Github](#)

- Applied a deep neural network for supervised learning
- Achieved 80 percent accuracy

SwiftEats

[Link to Github](#)

- A website for promoting the restaurant. Provides all information to the customers about the restaurant
- Used React and Redux [Live Preview](#)

Product Management System

[Link to Github](#)

- Complete solution for inventory management using Laravel framework with mysql
- It can view, add, edit and delete products by logging in, also filter by price and search products by keyword. [Live Preview](#)

Virtual Classroom - Database Project

[Link to Github](#)

- The complete database management system for classwork
- Provided interface using Java

Phonebook System - Desktop Application

[Link to Github](#)

- A total management system for contacts
- Developed in CodeBlocks using C++

Battleship - Console Application

[Link to Github](#)

- A minesweeper-type game
- Developed in CodeBlocks using C++

SKILLS

Programming Languages: C, C++, Python, Java
Web Development: Html, CSS, Javascript, ReactJs, NextJs, NestJs, NodeJs
Database: SQLite, MySQL, Oracle, MongoDB
Testing: Cypress, Jest
Machine Learning: TensorFlow, OpenCV, Pandas
Others: Github, Jira, Matlab, AutoCad, Blender, AWS, etc

STANDARDIZED TEST SCORES

International English Language Testing System (IELTS)

Dec 2022

Overall: 7.0 out of 9.0 (Listening: 7.5, Reading: 7.5, Writing: 6.0, Speaking: 7.0)

EXTRA-CURRICULAR ACTIVITIES

- **Programming Contestant (2017-2019), IUT ICT Fest**
IUT Computer Society, Islamic University of Technology, Bangladesh
- **Organizer (2017-2019), IUT ICT Fest**
IUT Computer Society, Islamic University of Technology, Bangladesh
- **Volunteer (2014-2015), Scintilla Science Festival**
St. Joseph Higher Secondary School and College
- **Striker, Josephite Football Team**
St. Joseph Higher Secondary School and College
- **Participant (2006-2013), Scintilla Science Fair**
Winner in 2013
St. Joseph Higher Secondary School and College

REFERENCES

Dr. Md. Hasanul Kabir

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Islamic University of Technology (IUT)
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Dr. Hasan Mahmud

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