Raiyan Ahmed

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SUMMARY

I have studied computer science and engineering 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) *Remote*
Software Engineer *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 *Dhaka, Bangladesh*
Software Engineer Intern *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 Previw

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 Previw

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

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