Tarmah Bin Iqbal

Computer Science Student

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Education

National University of Sciences and Technology (NUST) *Islamabad,Pakistan*

Bachelor of Science in Computer Science, GPA: 3.15/4.0 *july 2020*

Skills

Languages	Python , JavaScript , C, C++,Java, R
Frameworks	ReactJs , Django , Tensorflow , OpenCv
Database	mySql , Sqlite
version control	git

Experience

Furnwish *Cairo , Egypt*

Machine Learning Intern *July 2019 - August 2019*

- 2 Month Internship
- Worked on a Computer Vision Research Project using PyTorch. The project was to convert 2-D images to 3-D volumes.The idea behind the project was to enable furniture sellers to take pictures of pieces of furniture and converting them into 3-D models which the end user can see how they look like in their living room.The generated 3-D models are viewed in an iOS mobile app using Apple ARKit

Projects

Final Year Project

- Programming Language used: Python , Tensorflow , Keras , OpenCv
- Working on Generation on Muslim Art and/or Painitngs with help of verious GAN models with data from local painters and muslim architecture

Ecommerce Web App Github Link

- Tools used: ReactJs , Javascript ,Redux , Firebase
- A full Fledged Ecommerce Web App along with user Autentication and Cart feature

TCP-like Communication using Raspberry Pi Github Link

- Programming Language used: Python
- This was an implementation for Bottom Up Data Tree
- Commmunicated between a Raspberry Pi 3 and a Laptop running Ubuntu. We used a layer over the UDP networking protocol to convert it to a TCP-like protocol
- This was a demonstration of how a node sends data to its parent node in a bottom up data tree and how to use buffers of limited size.The Parent Node tells its child node when a Overflow condition occurs and asks it to slow down the data rate and similarly for underflow the Parent node asks its child node to slow down its data rate.The 'Processing' of data and 'Generation of data was demonstrated using threads and a lock was implemented for syncronisation'

HTTP Downloader Github Link

- Programming Language used: Python
- This downloader can operate on multiple connections, which results in faster downloading
- This downloader can deal with interrupted downloads, by saving the data, in hidden files, as it is fetched and combining all the files in the end

PPM Editor

- Programming Language used: C
- The goal for this project was to implement a Photo Editor tool, for .ppm files, with File Handling, Dynamic Programming and Pointers.

Django web App Github Link

- Programming Language used: Django
- Craig List clone was developed which involves scarping the original website results

Search Engine

- Semester Project for the course Data-Structures Algorithms. This was developed using JAVA and .xml files (from Wikipedia Dump).

Tourism Website

- Programming Languages used: HTML,CSS,JQUERY,JAVASCRIPT,AJAX,PHP,MYSQL
- This was Semester Project for the course Web Engineering.
- It involved login signup features also to make it interactive with the user

Library Management System

- Programming Languages used: Java,Mysql
- We developed a Library Management System in JAVA.This was for a Semester Project for the course Object Oriented Programming. The Database was developed using JDBC

Smart DustBin

- Programming Languages used: C/C++
- This was a Semester Project for the course Computer Organization Assembly Language. This was made on Arduino (Microcontroller).

MOOCS

Machine Learning, Stanford

DeepLearning.ai Specialization, Stanford