

# ARJON DAS

[arjondas.com](http://arjondas.com) ◇ [Github](#) ◇ [arjondas@gmail.com](mailto:arjondas@gmail.com)

## EDUCATION

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**Chittagong University of Engineering and Technology (CUET)**

*Mar 2014 - Dec 2018*

Bachelor of Science in Computer Science and Engineering

Department of Computer Science and Engineering

## WORK EXPERIENCE

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**Bibidho, Chittagong**

*Dec 2018 - June 2020*

Full Stack Software Engineer

- Added administrative access control system for better administration management.
- Designed extensive user data logging system which enabled the company to track and visualize consumer level habits and provided sophisticated and strategic decision making ability for the upper management.
- Created Content Management System for managing homepage.
- Responsible for converting the whole static website into dynamic React web app.

**Bangladesh Telecommunication Company Ltd., Chittagong**

*Nov 2017 - Dec 2017*

Networking Engineer Intern

- Monitoring network configurations and troubleshooting connectivity issues at BTCL POP Exchange.

## TECHNICAL SKILLS

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**Problem Solving & Scripting**

C, C++, Javascript, Python, Terminal, Basic Shell Scripting

**Machine Learning Tools**

PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib

**Full Stack Development**

MongoDB, Express.js, React.js, Node.js (MERN stack)

**Professional Skills**

LaTeX, Markdown, Word, Excel

**Mobile App Development**

Swift(iOS), Unity3D

## PROJECTS

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### Simple Sentiment

[Simple Sentiment](#) is a DistilBERT based classifier that can recognize positive and negative emotions from sentences. The model is trained on 1.6M Sentiment140 Twitter Dataset. The model has small memory foot-print(relative to other BERT models) with 86.6% accuracy. [\[code\]](#)

### Simple MANN (using LSTM)

Simple MANN is a meta-learning model for recognizing handwritten characters of different languages with few-shot learning scenario. The model uses LSTM instead of NTM for memory unit. The model is trained on the Omniglot Dataset. [\[code\]](#)

### Hateful Meme Detection

The project is an implementation of VisualBERT for the entry in the Facebook Hateful Meme Detection Challenge. Due to the multi-modal nature of the problem, the model's early vision and language fusion was helpful for training on the hateful meme dataset. The model scored 0.7214 AUC-ROC without ensemble and task specific pretraining.

### **COVID-19 Identification from Chest X-Ray**

ResNet-18 based classifier which has been fine-tuned on the Chest X-Rays from COVID-19 Radiography Database and it can differentiate Normal Condition, Viral Pneumonia and COVID-19 patients chest X-Ray. [\[code\]](#)

### **IoT Based Smart Food Monitoring System**

The project facilitates food monitoring of refrigerators and food cold storage systems using mobile devices, with high scalability. The system is developed using Raspberry Pi device and transformed into a small form factor IoT device. It is implemented using Python, Swift, Node.js. [\[code\]](#) [\[pdf\]](#)

### **Stock Scraper**

[Stock Scraper](#) is a tweet scraping server that counts number of times any stock has been tweeted by targeted users at Stocktwits and visualizes the data. This project is a excellent groundwork for analyzing and extracting data from social investment platforms. [\[code\]](#)

### **Online Job Market**

The project is a single page web app for searching and posting jobs online. The browser based app's front end is implemented using Javascript, React.js and server intergration using REST API. [\[code\]](#)

### **Car Rental System**

It is a database project for renting cars in a particular area, facilitating CRUD functions to the end-user. The project is implemented using PHP, HTML, CSS, MySQL, Javascript. [\[code\]](#)

### **Direct 2D**

Direct 2D is a self initiated game development project. The game was implemented using Swift with basic physics written from scratch. The app was available on Apple App Store from July 2017 to July 2018 with over 2.6K downloads. [\[code\]](#)

## **ADDITIONAL**

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- Amateur Observational Astronomer. Facilitated various astronomical events as a member of Bangladesh Astronomical Association, most notably the last Total Solar Eclipse from Bangladesh in this century and regions last Annular Solar Eclipse in fifty years.
- Board Scholarship: Government Merit Scholarship for Excellent Academic Results in Secondary Levels