MUSHFEQUR RAHMAN

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Education

University of Ontario Institute of Technology (Ontario Tech)
Sept 2017 – Present

B.Sc. Computer Science

CGPA: 3.87

Relevant Coursework:
Analysis and Design of Algorithms, Scientific Data Analysis, Statistics, Software Development and Integration, Computational Science, Software Design, Machine Learning, Web App development,Computer Vision, Database System and Concepts

Skills

- C/C++
- Javascript with Node and Vue
- Java (Android SDK)
- Python (NumPy, PyTorch, Pandas, Keras, Tensorflow)
- Ubuntu, Arch, Mac OS X
- PostgreSQL, MongoDB, SQlite, MySQL
- Clojure
- Dart and Flutter
- Swift
- Xcode
- PHP (HTML5 and bootloader)
- R

Experience

Computer Vision Research Assistant- VcLab, Canada
May 2019-Present

- Specializing in Few Shot Learning Techniques.
- Implemented SegNet with VGG 16 and ResNet50 feature extractor for Semantic Segmentation.
- Implemented Triplet Networks and Siamese Networks.
- Designed Convolutional Neural Networks in Pytorch and Keras with tensorflow backend.
- Collaborated with researcher running scripts on GPU Compute Servers.
- Troubleshot conda installation problems and Cuda toolkit and Cudnn conflicts.

Computer Lab Linux Support - OntarioTech, Canada
September 2018-April 2019

- Installed various Linux distributions such as Ubuntu and Arch and debugged BIOS faults.
- Deployed Linux Virtual Machines for systems that were not compatible
- Installed dependencies such as ARM compilers and g++ compilers.

Software Developer Intern - Bashundhara IT, Bangladesh
May 2018 - July 2018

- Developed Android applications using Java, Android SDK and android studio.
- Designed an android application to detect objects using the camera and google cloud API.
- Troubleshot gradle build problems when incorporating android libraries and dependencies such as Firebase.
- Developed an android application that focused on information visualization by parsing JSON files
- Collaborated with Senior Engineers to design and deploy web crawler APIs.

Projects

ChatsApp (Java, JSON, gradle, intelliJ)

- Designed a desktop application using java and intelliJ idea.
- Involved the use of databases and maintained our own Server for the chat application using Java Sockets.

World Happiness Data Analysis (Pandas,numpy,Jupyter Notebook)

- Investigated World Happiness Dataset on Kaggle to identify relationships between a country's Happiness and other environmental factors.
- Created a random forest regressor that reached 98.7 % testing accuracy.

LoveL Classification Website (NodeJs, Vue, MongoDB, Tensorflow js, Keras)

- Created a website with Node backend and Vue frontend with a custom text classifier neural network.
- Reduced Model inference time by 20 seconds

Toronto Fire Visualization(d3, javascript, data cleaning) [Code]

- Created a website with javascript and d3 that summarized all the fire incidents in Toronto from 2014 to 2017.