Md. Rayed Bin Wahed □ ○ ▼

EDUCATION

BRAC University

Dhaka, Bangladesh

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Bachelor of Science in Computer Science

Jan 2012 - Aug 2016

 \circ CGPA: 3.75/4.00 (Dean's List).

• **Recipient**: Merit Based Scholarship for the duration of the entire program.

Work Experience

Therap (BD) Ltd.

Dhaka, Bangladesh

Software Engineer II, Machine Learning

Oct 2019 - Present

o Responsibilities:

- * Lead the newly established Machine Learning department.
- * Create a team from the ground up by hiring and training new talent.
- * Explore the business potential in the analysis and inference of real-time time-series sensor data received through IoT devices.
- * Experience gathering and creating reliable datasets with the help of services like Amazon Ground Truth.
- * Experience cleaning, processing, and visualizing data for insight and interpretability by leveraging the rich ecosystem of Python open-source data science packages like Pandas and Numpy.
- * Experience training, tuning and deploying models for batch and real-time inference using cloud services provided by AWS and GCP.
- * Experience monitoring, optimizing, and updating models with zero down-time.
- Related Technologies: Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, TensorFlow, PyTorch, Amazon SageMaker, Google Cloud AI Platform

Therap (BD) Ltd.

Dhaka, Bangladesh

Software Engineer, Full Stack Web Development

Oct 2016 - Sep 2019

o Responsibilities:

- * Experience developing and maintaining Java EE, SaaS applications.
- * Strong understanding of Object Oriented Programming, Design Patterns, Data Structures, and Algorithms.
- * Thorough understanding of RDBMS and a demonstrated ability in database design.
- * Extensive experience working with Oracle WebLogic Server, Oracle Database and other Oracle Enterprise tools.
- * Experience in Agile software development methodologies and Test Driven Development.
- * Experience with Version Control Systems such as Git, Github, and Bitbucket.
- * Experience with dependency management and build tools such as Ant, Maven, and Gradle.
- * Adept at configuring and deploying applications in Unix-like systems.
- * Expertise in HTML, CSS, Javascript and its many libraries.
- Related Technologies: Spring MVC, Hibernate ORM, SQL, Bash

BRAC University

Dhaka, Bangladesh

Jan 2014 - Aug 2016

 $Teaching\ Assistant$

 $\circ\,$ Data Structures and Discrete Mathematics:

- * Grade quizzes.
- * Provid one-to-one consultations and exam hall invigilation.
- * Assemble and distribute supplementary study materials.

IMDB Sentiment Analysis Web App

Amazon SageMaker Demonstration

Dhaka, Bangladesh

Dec 2019

o Particulars:

- * Train and deploy a custom Pytorch LSTM model in Amazon SageMake.
- * Create a AWS Lambda function that invokes the model's inference endpoint.
- * Create a Amazon API Gateway that calls the lambda function upon a HTTP POST request passing in the user review and returning back the prediction.
- * Link to Github

We Are X, A Customer Service Provider Firm

Dhaka, Bangladesh

Machine Learning Engineer (Contractual, Remote)

Oct 2018 - Mar 2019

- \circ Customer Query Classification:
 - * Train a tf.Estimator model capable of classifying customer queries into 9 categories.
 - * Deploy the model in Google Cloud ML Engine.
 - * Expose REST endpoint for real-time inference.
- o Outcome:
 - * X was finding it difficult to scale to the growing number of customer queries by hiring and training new customer service representatives.
 - * My AI system improved existing customer service representative throughput by 3x allowing X to meet market demand keeping existing infrastructure intact.
 - * Currently X is thinking of ways to integrate the system more deeply into their workflow.

Courses and Certificates

Machine Learning Engineer Nanodegree

Udacity

Nov 2019 - Present

- Ongoing: Link to Github.
- Machine Learning with TensorFlow on Google Cloud Platform Specialization

Google Cloud Authorized Online Training

- End-to-End Machine Learning with TensorFlow on GCP by Google Cloud on Coursera. Certificate earned at Saturday, January 12, 2019 4:58 AM GMT: Link to Certificate.
- Intro to TensorFlow by Google Cloud on Coursera. Certificate earned at Thursday, January 3, 2019
 5:01 PM GMT: Link to Certificate.

Deep Learning Specialization

Online Courses Taught by Professor Andrew Ng of Stanford University

Dec 2016 - Mar 2017

- Deep Learning, a 5-course specialization by deeplearning.ai on Coursera. Specialization Certificate earned on April 9, 2018: Link to Certificate.
- Sequence Models by deeplearning.ai on Coursera. Certificate earned at Monday, April 9, 2018 1:34 AM GMT: Link to Certificate.
- Convolutional Neural Networks by deeplearning.ai on Coursera. Certificate earned at Saturday, March 10, 2018 4:36 PM GMT: Link to Certificate.
- Structuring Machine Learning Projects by deeplearning ai on Coursera. Certificate earned at Monday, January 22, 2018 12:32 PM GMT: Link to Certificate.
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai on Coursera. Certificate earned at Wednesday, January 17, 2018 5:16 PM GMT: Link to Certificate.
- Neural Networks and Deep Learning by deeplearning.ai on Coursera. Certificate earned at Friday,
 January 12, 2018 5:45 AM GMT: Link to Certificate.