

Shamikh Hossain

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experience

Energy Data Analytics Lab, Duke University— *Research Fellow*

May 2017 - Present

Investigating deep-learning methods on aerial imagery in NSF-funded research under Dr. Kyle Bradbury. Working in a team to develop and train a classifier for evaluating [electricity access](#) from satellite images using scikit-learn, TensorFlow, Matlab, ArcGIS. Continuing research to develop classifier through academic year. Published open-source training [dataset](#).

Office of Information Technology, Duke Biology— *IT Consultant*

September 2016 - June 2017

Work in team to provide tailored software and hardware support for computing in the Biology dept. by researching technical issues, writing internal documentation, maintaining external wiki, automating installations

Duke Student Organization Finance, Durham, NC— *Auditor*

September 2016 - May 2017

Analyze consumption metrics of campus organizations to help school administration determine optimal allocation of resources

education

Duke University, Durham, NC - B.S, Computer Science, B.S, Economics

August 2016 - May 2020

projects

Biology IT Inventory - [Web platform](#) and REST API built on Django, PostgreSQL to track loaner equipment inventory and users for Biology IT

HitChecker - Python/Tkinter [program](#) using Amazon Mechanical Turk API to allow a user to efficiently evaluate crowdsourced image annotation data

DAMUN Website - Created new conference [website](#) for Model UN school organization, website was awarded grant from UN Foundation of America

Web Tutorial Series - maintained [YouTube channel](#) of tutorials on computer software and graphic design, accumulated 185,000+ video views

skills

Software: Python, Java, Ruby

Data: NumPy, SciPy, pandas, scikit-learn, matplotlib, R, Matlab, Excel, Jupyter

Web: HTML/CSS/JavaScript, Rails, Django, Flask, Node.js

General: Git, Linux, scripting

courses

Data Structures & Algorithms, Microeconomics, Computer Architecture, Linear Algebra for Computer Science, Multivariable Calculus for Economics, Energy Data Analytics Lab

Independent Coursework:

Lynda: Django

Enthought: NumPy

other

University Dean's List

National AP Scholar

IB® Diploma Recipient

Burger King Scholar

YouTube Partner