

# 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](#)/REST API built on Django, PostgreSQL to track loaner equipment inventory and users for Biology IT helpdesk

**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

