# **Shamikh Hossain**

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### experience

**Duke Energy Data Analytics Lab**, Durham, NC— Research Fellow May 2017 - Present

Contributed to design of end-to-end machine learning pipeline, streamlining data acquisition, evaluation and conversion in Python for end goal of modeling electrification rates directly from aerial imagery; worked to curate a training dataset using image processing libraries, scikit-learn, Matlab, and ArcGIS. Currently continuing research to implement deep-learning model and develop georeferenced electricity access maps for developing regions of interest.

**Duke Office of Information Technology,** Durham, NC— *IT Consultant* September 2016 - June 2017

Worked in a team using ServiceNow CRM platform to provide tailored **software and hardware support** for all computing in the Biology department by researching technical issues, writing internal and external documentation

**Duke Student Organization Finance**, Durham, NC— Auditor September 2016 - Present

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

**Dallas Area Model United Nations,** Dallas, TX— *President & Tech Lead* May 2015 - May 2016

**Supervised 20 member-team** to organize Model UN conference for high school students in Dallas metroplex. Managed **~\$11,000 budget**, built **web portal** and social media platform, implemented **merit-based team selection** 

### 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

**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, Intro to Computer Science

Independent Coursework: Lynda: Django Enthought: NumPy

# recognition

University Dean's List
National AP Scholar
International Baccalaureate
Diploma Recipient
Burger King Scholar
YouTube Partner
3rd Place; Microsoft Coding
Competition at Duke (tied)