

# shamikh hossain

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## education

**Duke University**      2016 - 2020  
B.S, Computer Science  
B.S, Economics

## skills

**Software:** Python, Java, Ruby

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

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

**General:** Git, Photoshop, Linux,  
ServiceNow CRM

### Independent Coursework:

Lynda: Django, Udacity: Machine  
Learning, Enthought: NumPy

## other

University Dean's List  
National AP Scholar  
IB® Diploma Recipient  
Burger King Scholar  
Freelance Web Developer  
YouTube Partner

## interests

Algorithms, data science,  
machine learning, web  
development, cryptocurrency,  
econometrics, ancient history,  
python, math

## experience

### Duke Energy Data Analytics Lab - Undergraduate Research Fellow

May 2017 - Present | Information Initiative at Duke | Durham, NC

- Investigating novel approaches to quantitatively evaluate electricity access in developing regions using deep-learning of aerial imagery as part of NSF-funded research. Trained, tuned and implemented convolutional neural networks to auto-detect power indicators, making open-source energy map

### Duke Office of Information Technology - IT Consultant

August 2016 - Present | Duke Biology Dept. | Durham, NC

- Use ServiceNow® platform to provide software and hardware support for professors and staff of Duke Biology, protect lab data, encrypt firmware, remove viruses, configure software, solve network issues, create images
- Write Bash scripts to automate routine installations, research technical issues, write internal IT team documentation and maintain external wiki

### Duke Student Organization Finance - Auditor

August 2016 – Present | Durham, NC

- Analyze consumption and performance metrics of campus organizations to help Duke administrators determine optimal usage of funding and resources
- Evaluate budget reports for Student Organization Finance Committee

### Dallas Area Model United Nations - President & Tech Lead

May 2015 – May 2016 | Dallas, TX

- Supervised 20 member-team to organize Model UN conference for city high school students, managed ~\$11,000 budget and all external communications
- Implemented merit-based delegate team selection, conducted workshops

## projects

- **UAV Animal Tracking** - Developing new animal-tracking system using Unmanned Aerial Vehicles (UAV), computer vision libraries and a novel lightweight-tagging method as part of Duke Conservation Technology
- **DAMUN Website** - Created new conference website for Model UN school organization, site received attention from UN Foundation of America, leading to organization being awarded a grant for conference
- **Video Tutorial Series** - maintained YouTube channel of tutorials on computer software and graphic design, accumulated 180,000+ video views