SHAMIKH HOSSAIN

shamikh.hossain@duke.edu | (469) 386-1378
shamikh.me | GitHub | LinkedIn | Blog

EDUCATION

Duke University 2016-2020
Cumulative GPA: 3.93/4.0 | Major GPA: 4.0
BS, Computer Science
BS, Economics Dean's List, Fall 2016

Uplift North Hills Preparatory 2012-2016
IB® Diploma Recipient, National AP Scholar

SKILLS

Python (proficient) | Java (familiar)
<u>Data:</u> iPython & Jupyter Notebook (proficient)
NumPy | SciPy | pandas | matplotlib (familiar)
scikit-learn (beginner), R, SQL, ArcGIS (familiar)
<u>Web:</u> HTML5/CSS/JavaScript | WordPress
Frameworks: Flask, Django, Node.js (familiar)
<u>General:</u> Photoshop, Excel, Git, Markdown,
CLI/Bash, ServiceNow CRM (experienced)
<u>Independent Coursework:</u> Lynda: Django,
Udacity: Machine Learning Nanodegree (in
progress), Enthought: Python Essentials, NumPy

LEADERSHIP

Dallas Area Model United Nations
President, Co-Director of Technology | 2015-'16
- Supervised 20 member-team to organize Model UN conference for 150 city high school students, managed ~$11,000 budget
- Developed new conference website in WordPress, site receives attention from UN Foundation of America, school is offered scholarship grant for conference
- Designed logos/flyers, served as liaison to faculty, conducted delegate workshops
- Introduced first-ever impartial, merit-based score-report system to distinguish delegates for end-of-year conference

Duke Student Organization Finance
Auditor | September '16–Present
- Analyze turnouts, consumption, outcomes, and budgets of campus organizations to determine optimal usage of university resources

EXPERIENCE

Duke Energy Data Analytics Lab
Incoming Research Intern | May – August 2017
- Part of Summer 2017 Data Plus project that uses data science and machine learning techniques, specifically in Python and Matlab, to analyze electricity access disparity in developing countries
- Will work on creating a dataset for research, implementing and tuning a convolutional neural network for analyzing aerial imagery, and conducting research on socioeconomic and physical factors surrounding urban energy

Duke Office of Information Technology
Biology IT Computer Consultant | August '16–Present
- Provide live software and hardware support for professors, students, faculty of Biology Dept.
- Work to protect sensitive lab data, encrypt firmware, remove viruses, assist with software configuration, network issues, set-up and imaging for all computers in largest Duke department
- Work to write scripts to automate routine installs
- Write tutorials/program documentation and manage Biology IT Wiki, online knowledge-base for common Duke software configurations/tutorials
- Use ServiceNow CRM platform to assist Duke community on wide range of technical issues

Duke Conservation Technology (DCT)
Developer, Animal Tracking Team | Sept. '16–Present
- Part of new student initiative using technology to tackle ecological and environmental issues
- Helping build and test new livestock/animal-tracking methodology using Unmanned Aerial Vehicles (UAV) and lightweight tagging system
- Working to update current implementation of MATLAB Image Processing toolbox, investigating possible implementation in Python with OpenCV, ROS and Raspberry Pi computer/camera system

Freelance Developer & Publisher
- As a Partner Content Publisher on YouTube, maintained online library of tutorials on computer software/graphic design, 180,000+ video views
- Used front-end technologies (HTML/CSS/JS), WordPress, and Adobe Creative Suite to create logos and websites for various groups or services