# shamikh hossain

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## education

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

## skills

**Software:** Python, Java, Ruby

**Data:** Jupyter Notebook, NumPy, SciPy, scikit-learn, pandas, matplotlib, R, SQL, ArcGIS, Excel

**Web:** HTML/CSS/JavaScript, WordPress, Rails, Django, Flask, Node.js, React (familiar)

**General:** Photoshop, Markdown, CLI/Bash, ServiceNow CRM, Git

**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

• Researching implementations of deep learning convolutional neural networks to identify visual indicators of electricity access in aerial imagery, under the mentorship of Dr. Kyle Bradbury as part of NSF-funded research

**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

• **Biology IT Inventory** - Developing web-based inventory application using Ember.js and Firebase for keeping track of IT office loaner equipment

• **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