shamikh hossain

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education

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

skills

Software: Python, Java, Git

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

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

other

University Dean's List
IB® Diploma Recipient
National AP Scholar
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 usage of data science and deep learning techniques to identify visual indicators of electricity access and reliability in aerial imagery, under the mentorship of Dr. Kyle Bradbury as part of NSF-funded research

Duke Office of Information Technology - IT Analyst
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 and lightweight-tagging as part of Duke Conservation Technology; working to re-implement existing Matlab program in Python, utilizing ROS and Raspberry Pi with camera

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

• **Dallas Area Model United Nations Website** - Created new conference website for 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