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Atif Mahmud

http://atiftalks.tech
https://github.com/atif-mahmud

Education

- **Waterloo Collegiate Institute**   **Average: 96.3**

Publications (* = equal contribution)

- Atif Mahmud*, Zachary Trefler* "NeurAlgae: Predicting Harmful Algal Blooms Using Recurrent Neural Networks." Under review; Distill preprint (2017)
- Atif Mahmud "Malarkey: A robust sentiment analysis protocol for semantic web data with generative adversarial networks." Under review; Distill preprint (2017)

Professional Experience

- **Research Assistant** at UW DSG   *Fall 17' -- Present*
  - Working under Prof. Ihab Francis Ilyas in Data Systems Lab at Cheriton School of Computer Science on **RDF Clustering** and **Holistic Data**
- **Founder and CEO** of Flowboat   *Fall 17'-- Present*
  - Waterloo's premiere high school startup accelerator and institute for creative science and technology (25 Active Members)
- **Founder and Lead Developer** of Flowi   *Fall 17' -- Present*
  - A smart advertising and Wi-Fi solution for dense city center areas, using new web technologies

Awards and Honors

- Schulich Leader   *2018 -- Present*
- Silver Medal *at* Canada-Wide Science Fair   *2017*
- Gold Medal, Division Champion, Award of Merit, Best in Fair *at* Waterloo-Wellington Regional Science Fair   *2017*
- SHAD Fellow   *2016*
- Best Delegate - Centre for International Governance Innovation WRHSMUN   *2016*
- Team Lead – Provincial ECOO (Educational Computing Organization of Ontario)   *2016*
- Regional Debate Champion - OSDU Debate Union   *2016*
- Gold Medal, Division Champion *at* Waterloo-Wellington Regional Science Fair   *2015*

Implementation Projects

- **Malarkey:** Smart sentiment aware text classification and generation for human web data using Generative Adversarial Networks – build using PyTorch and OpenAI
- **NeurAlgae:** Harmful Algal Bloom prediction off the coast of California and in Lake Erie up to one week in advance – built using PyTorch and Google Earth Engine
- **Flowi:** A service which seamlessly connects businesses to relevant consumers – built using Angular 5 and Firebase

Selected Press

- Local students produce award-winning research at the Canada… (http://bit.ly/2AXhlV1, 2017)
- Top Canadian students enter Waterloo STEM programs on scholarship (https://goo.gl/KbdQ8K, 2018)