


# WILSON HSU

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**Work Experience:** **Web Application Developer** North York, Ontario  
Environment and Climate Change Canada Aug. 2020 – Present

- Works in an Agile team which is responsible for upgrading and maintaining several .NET MVC web applications that enforce the 4 major effluent regulations in Canada.
  - Wrote SQL scripts to generate test cases for performance testing, and a Windows program that cleans/convert undesirable data in production database into wanted format.
  - Designed and developed the brand-new Business Application Tracker app that is used to keep track and report all resource allocations within the Business e-Solution Division.
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**Education:** **Computer Science Specialist** Honours Bachelor of Science  
University of Toronto Sept. 2017 – (Expected) Apr. 2022

- Cumulative GPA of 3.83.
  - Focus in Artificial Intelligent and Minor in Mathematics.
  - Dean's List Scholar of Year 2018, 2019 and 2020.
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**Project:** **Neural Dependency Parser** May 2020

- Made a transition-based parser that would parse a sentence into a dependency graph.
- Implemented a feedforward-NN using PyTorch library to predict the next projective transition to apply to the sentence parser.
- The model was trained in mini-batches and achieved 89.8% accuracy on 2416 test sentences.

**EtherRide** Jan. 2019

- Car rental app that won the Best Aragon App award at UofTHacksVI out of 100+ participating teams.
  - Smart contract created/stored on the Ethereum Blockchain and managed using Aragon platform.
  - Integrated SmartCar API to remotely lock/unlock smart vehicles once transactions are verified.
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**Leadership:** **Vice-President of Operations**  
ROC Student Association at UofT Mar. 2019 ~ Apr. 2020

- Recruited and lead a team of 8 people to engage in face-to-face meetings, phone calls, emails with numerous potential sponsors of the student association.
  - Evaluated and managed all cash flows for our student association of over 200 active members.
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**Skill:** **Languages**

- Python, C#, C, Java, Javascript, HTML, CSS, SQL

**Tools**

- PyTorch, Sklearn, Keras, NumPy, MongoDB, Entity, .NET, Git, (React/Angular/Express/Node).js