

# Felix Zhu

felix.czhu@gmail.com • felixchenzhu.herokuapp.com

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## Education

- **University of Toronto** **Toronto, ON**  
*Honours B.Sc. Computer Science & Statistics (3.83/4.00 GPA)* *2013 - 2018 (expected)*
    - Dean's Honour List, President's Entrance Scholarship, Trinity College Entrance Scholarship
    - CS Masters exchange student at ETH Zurich for 2015-2016 school year with scholarship
    - Coursework: Machine Learning, Information Retrieval, Data Mining, Software Design (see LinkedIn)
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## Work Experience

- **Scotiabank** **Toronto, ON**  
*Data Scientist Intern, Decision Sciences* *Summer 2015*
    - Rewrote SAS algorithm in Python, reducing average runtime from 3h 45 min to 67 seconds.
    - Wrote an algorithm for shallow parsing of SWIFT network messages, achieving an accuracy of 95.9%.
    - Rewrote algorithm which normalizes input strings, improving accuracy from roughly 50% to 95.7%.
    - Visualized data with d3.js and communicated results to both technical and non technical audiences.
  - **Semesterly** **www.semester.ly**  
*Software Engineer* *2014 – Present*
    - Wrote core backend algorithm, reducing runtime by half compared to recursive solution.
    - Implemented scoring algorithm to rank timetables based on user preferences.
    - Reverse engineered Apple iCal's algorithm for showing schedules with conflicts.
    - Generalized code to allow for easy extensions to other universities (now in production for JHU).
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## Projects and Activities

- **UofT Robotics Autonomous Rover Team** **Fall 2014**
    - Led algorithm research on path planning team.
    - Improved runtime by 50% while maintaining overall path optimality compared to A\*, using AD\*
    - Collaborated with 30 engineers (3 teams) over 4 months for the Intelligent Ground Vehicle Competition
  - **Uniuni – Student Life Search Engine** **Fall 2014**
    - Reduced searching to a single click by showing results dynamically and adding search suggestions
    - Refactored code to fit MVC principles and increased code quality
    - Enabled sharing on social networks by linking the users' Facebook accounts using the Facebook API
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## Skills

**Languages:** Python, C++, JavaScript, Haskell, Prolog, Java

**Libraries/Packages:** Pandas, Scikitlearn, React.js, Django, D3.js

**Open Source Contributions:** Parserator

**Other:** Git, HTML/CSS, PostgreSQL,  $\LaTeX$

**Languages (Human):** English, French, Mandarin, German