Felix Zhu

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Education

- **University of Toronto** **Toronto, Canada**
  Honours B.Sc. Computer Science & Statistics (3.83/4.00 GPA) *2013 - 2017*
  - Exchange student at ETH Zurich for 2015-2016 school year
  - Dean's Honour List (2013-2015), Ashbaugh Chancellor Scholarship, Trinity College Entrance Scholarship, President's Entrance Scholarship
  - see LinkedIn page for list of coursework

Work Experience

- **Factual** **Los Angeles, USA**
  Software Engineer Intern | Scala, Spark *Summer 2016*
  - Defined new accuracy metric for geocodes that takes local density into account.
  - Rewrote step in data processing pipeline which lead to 4% increase in location accuracy (lat/lon)
  - Wrote a search engine over internal resources which won 3rd place at company wide hackathon.

- **European Organization for Nuclear Research (CERN)** **Geneva, Switzerland**
  Research Assistant | Python (numpy, scipy, skimage, pyQT) *Winter 2016*
  - Implemented algorithms to simulate resolution and sensitivity loss in a PET system in near real time
  - Built a visual interface to the software for ease of use by other researchers.

- **Scotiabank** **Toronto, Canada**
  Data Scientist Intern | Python (pandas, sklearn), Javascript (D3.js), SAS *Summer 2015*
  - Wrote a core part of the wire transfer processing pipeline, achieving a shallow parsing accuracy of 95.9%.
  - Reimplemented a bank name classifier, improving accuracy from 50% to 85.7%.
  - Ported legacy SAS code to Python and reimplemented algorithms, increasing speed by more than 15x.

Selected Projects

- **Semesterly** | *Python (django), HTML, CSS, Javascript (React.js, Redux); PostgreSQL* **2014 - Present**
  Designed and implemented core functionality across the stack for a student scheduling app. Achieved over 11,000 users within a month of launching and 200,000 schedules generated for 3 different schools. Received $10,000 in funding as part of the O'Connor Fund's 2016 cohort.

- **Metabolise** | *Python (flask, sklearn)* **Winter 2016**
  Worked on the backend of an iOS fitness app which updates user's caloric deficit in real time and uses a machine learning model to predict nutritional content as opposed to the database lookup model used by competitors (e.g. MyFitnessPal). Won 3rd place at hackcambridge.

- **Summarize** | *HTML, CSS, Javascript* **Fall 2014**
  Built a web app at HackMIT that performs named entity recognition on input text and allows the user to instantly obtain background information about, and a summary of, key terms.