

# Felix Zhu

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## Education

- **University of Toronto** **Toronto, Canada**  
*Honours B.Sc. Computer Science & Statistics (3.83/4.00 GPA)* 2013 - 2018
    - Exchange student at ETH Zurich for 2015-2016 school year
    - Awards: Dean's Honour List (2013-2015), Ashbaugh Chancellor Scholarship (2015), Trinity College Entrance Scholarship (2013), President's Entrance Scholarship (2013)
    - see LinkedIn page for coursework
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## Work Experience

- **Factual** **Los Angeles, USA**  
*Software Engineer Intern (Incoming)* Summer 2016
  - **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 and built a visual interface to the software.
  - **Scotiabank** **Toronto, Canada**  
*Software Engineer Intern | Python (pandas, sklearn), Javascript (D3.js), SAS* Summer 2015
    - Ported SAS algorithm to Python, reducing average runtime from 3h 45 min to 67 seconds.
    - Wrote a SWIFT network message tagger using conditional random fields, achieving an accuracy of 95.9%.
    - Reimplemented a bank name classifier, doubling accuracy from 50% to 95.7%.
    - Visualized data with D3.js and communicated results to both technical and non technical audiences.
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## Projects and Activities

- **Metabolise** | *Swift, Python (flask, sklearn)* **Winter 2016**  
iOS fitness app which updates caloric deficit in real time. 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.
  - **Semesterly** | *Python (django), HTML, CSS, Javascript (React.js, Reflux)* **2014 - Present**  
Designed and implemented backend architecture as well as some front end components and a web crawler for a student course schedule generating app. Over 20,000 hits from beta launch at John Hopkins University.
  - **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.
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## Skills

**Languages:** Python, (fluent), Haskell, JavaScript (intermediate), C, C++, Prolog, Java, Scala (prior experience)

**Other:** Git, HTML/CSS, PostgreSQL

**Languages (Human):** English, French (fluent), Mandarin (intermediate)