

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** | *Python (django), HTML, CSS, Javascript (React.js, Reflux)* **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** | *swift, flask, sklearn* **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)