

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
 - Completed graduate level coursework in AI/ML related topics. See LinkedIn page for list of courses
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Work Experience

- **Factual** **Los Angeles, USA**
Software Engineer (Data) Intern | Scala, Spark Summer 2016
 - Currently working on geocodes and data quality metrics
 - **European Organization for Nuclear Research (CERN)** **Geneva, Switzerland**
Research Assistant | Python (numpy, scipy, skimage, pyQT) Winter 2016
 - Implemented algorithms to parametrically simulate resolution and sensitivity loss in a PET system in near real time and built a visual interface to the software.
 - **Scotiabank** **Toronto, Canada**
Data Scientist Intern | Python (pandas, sklearn), Javascript (D3.js), SAS Summer 2015
 - Implemented a core part of the data processing pipeline for Network Analytics, including a shallow parser for SWIFT messages (achieving 95.9% accuracy using conditional random fields), and a bank name classifier (improving previous accuracy from 50% to 85.7%)
 - Ported legacy SAS code to Python, reducing average runtime of a program from 3h 45 min to 67 seconds.
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Selected Projects

- **Semesterly** | *Python (django), HTML, CSS, Javascript (React.js, Redux)* **2014 - Present**
Designed and implemented full stack architecture and wrote web parsers for a student course schedule generating app. Over 20,000 hits from beta launch at John Hopkins University. Received \$10,000 in funding as part of the O'Connor Fund's 2016 cohort.
 - **Metabolise** | *Swift, 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.
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Other Skills/Accomplishments

- Top 80th percentile worldwide in Google Code Jam 2016
- 12th nationwide (Switzerland) at Helvetic Coding Competition 2016 in the undergraduate category
- Can speak English, French, Mandarin, and learning German
- Ex provincial level athlete in soccer, track and field, and cross country
- Performed at the National Arts Centre's Southam Hall (Ottawa) and Parco della Musica (Rome) in front of 2000+ as a violist with the Ottawa Youth Orchestra