Felix Zhu

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Education

- **University of Toronto** **Toronto, ON**
  Honours B.Sc. Computer Science & Statistics (3.83/4.00 GPA) *2013 - 2018*
  - CS Masters exchange student at ETH Zurich for 2015-2016 school year with scholarship
  - Awards: Dean's Honour List (2013 - 2014, 2014-2015), Ashbaugh Chancellor Scholarship (2015), Trinity College Entrance Scholarship (2013), President's Entrance Scholarship (2013)
  - Coursework: Machine Learning, Information Retrieval, Data Mining, Software Design (see LinkedIn)

Work Experience

- **European Organization for Nuclear Research (CERN)** **Geneva, Switzerland**
  Student Developer (Incoming) | *Python, C++ (ROOT)* *Winter 2016*
- **Scotiabank** **Toronto, Canada**
  Data Scientist, Intern | *Python (pandas, sklearn), Javascript (D3.js), SAS* *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 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.
- **Semesterly** **Toronto, Canada**
  Software Engineer | *Python (django), HTML, CSS, Javascript (React.js)* *2014 – Present*
  - Wrote core backend algorithm, reducing runtime by half compared to recursive solution.
  - Implemented scoring algorithm to rank schedules based on user preferences.
  - Reverse engineered Apple iCal's UI algorithm for displaying schedules with conflicting items.
  - Generalized backend code to double number of potential target schools.

Projects and Activites

- **Stepeval** | *Haskell* **Fall 2015 - Present**
  Stepeval is a Haskell program that parses Haskell source code and prints out the evaluation steps of Haskell expressions step by step until weak head normal form or a time limit expires.
- **UofT Robotics Association** | ***C++*** **2014 - 2015**
  Was a team member of the autonomous rover team - read academic papers about relevant path finding algorithms and implemented some of them in C++, comparing performance and suitability for the rover.
- **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.

Skills

Languages: Python, (fluent), JavaScript, Haskell (intermediate), Prolog, Java, Scala (course experience)
Libraries/Packages: Pandas, Scikitlearn, React.js, Django, D3.js
Other: Git, HTML/CSS, PostGreSQL, LaTeX
Languages (Human): English, French (fluent), Mandarin, German (intermediate)