

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)
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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.
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Projects and Activities

- **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.
 - **Uniuni | HTML, CSS, Javascript (Angular.js)** **Fall 2014**
Worked on the frontend of a student search engine, showing search suggestions and results dynamically to allow for a more intuitive user experience.
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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, L^AT_EX

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