

Leon Xu

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EDUCATION

- 2013-2018 **Bachelor of Science, Specialist in Bioinformatics and Computational Biology, Major in Computer Science Candidate**
The University of Toronto, St. George Campus, Toronto, ON, Canada
-current cGPA = 3.63, with courses in molecular biology, physical/organic/biochemistry, computer science and software design, calculus, linear algebra, mathematical logic and reasoning, statistics and probability, systems programming, computer architecture, data structures, genetics
- 2009-2013 **International Baccalaureate Diploma**
Colonel By Secondary School, Ottawa, Ontario
-awarded 36/45 IB Diploma Points (85th percentile internationally, 29/45 is international average), equivalent to a 95% OSSD

PROJECTS/SKILLS (Github: <https://github.com/LLYX>)

Computer

- Incident Notification Generator using **Ruby, Ruby on Rails, HTML, CSS, Javascript and jQuery, PostgreSQL**
- Life Texts (access information such as weather, news, directions, stock, movies without data/wifi) using **Javascript, node.js**, helped write server that implemented web parsing and multiple APIs
- Emergency Room Record app using **Java, Android SDK, SQLite** to manage hospital patient records
- Database manager using **Python** with basic search and sort capabilities
- Regular Expressions Parser using **Python**
- Also competent in **Microsoft Office Suite** (Word, Excel and PowerPoint), **Autograph** and other graphing software, **version control** using **SVN or Git, Eclipse IDE, C#, R**

Language

- Fluent in **English** (written and spoken) and **Mandarin** (spoken), Intermediate French (written and spoken)

WORK AND VOLUNTEER EXPERIENCE

- 2015 **The Parkinson Lab at The Peter Gilgan Center for Research and Learning, SickKids, Toronto, Ontario**
Research Assistant (Current)
-aid in the development of software tools to categorize newly sequenced enzymes
-develop a statistical metric to determine the probability of a correct categorization
-aid in the development of a software tool to visualize metabolic pathways as networks using **D3.js**
- 2015 **Shared Services Canada, Ottawa, Ontario**
Web Developer and Analyst (Summer Intern)
-developed applications to decrease complexity of time consuming tasks such as creation of employee timetables, sending out crucial notifications, and organizing documentation using **Ruby/Ruby on Rails**
- 2014 **University of Ottawa, Department of Biochemical Engineering, Ottawa, Ontario**
Research Lab Assistant (Summer Intern)
-aided PhD supervisor in creation of nanoparticle desiccant gel
-provided suggestions regarding optimization of creation process to improve testing result consistency of nanoparticle desiccant gel in pressure resistance tests

AWARDS AND HONOURS

- 2014/2015 **Dean's List Recipient**, University of Toronto
- 2013 **University College Special Admission Scholarship**, University College, University of Toronto
- 2013 **Silver Medal**, Colonel By Secondary School and Ottawa-Carleton District School Board, Ottawa, Ontario
- 2013 **Volunteer Dedication Award**, Canada Science and Technology Museum, Ottawa, Ontario
- 2012 **MusicFest B600 Level National Competition, Gold Rating**