

David Xu

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EDUCATION

Masters of Mathematics, Computer Science, Thesis Option **2014-Present**

University of Waterloo, Waterloo, ON, Canada.

- CGPA: 95.3%. Interests: Software Engineering Tools, Machine Learning.

Bachelors in Engineering, Biomedical & Electrical **2007-2012**

Carleton University, Ottawa, ON, Canada.

- CGPA: 11.2/12.0, and awarded the Senate Medal for Outstanding Academic Achievement (top 3% of graduating class).

SOFTWARE DEVELOPMENT PROFICIENCY

- **Languages:** Java, Python/NumPy, SQL, C++, MATLAB, PHP, UNIX shells
- **Tools and Frameworks:** Eclipse, SVN, Git, JIRA, Ant, J2EE, Android, BB10

WORK EXPERIENCE

Alcatel-Lucent **May 2012-Aug 2014**

Software Development Engineer Ottawa, ON

- Core member of an agile scrum team for the SAM5620 enterprise manager: a multi-site project built on Java (J2EE) and a custom XML driven framework.
- Implemented mission critical features used by major telecom providers.
- Played a lead role designing and implementing a highly requested feature for deployment of snapshot configurations on thousands of network elements.

Nakina Systems **Jan 2010-Dec 2011**

Software Developer (Intern) Ottawa, ON

- Became familiar with Java Enterprise frameworks and delivered swift, and quality fixes for software defects raised by customers and QA.
- Core test developer for Nakina's automated-testing environment, and test console in Eclipse PDE, which provided full coverage of Nakina's API.

Canadian Border Services Agency **May 2009-Sept 2009**

Software Developer and Biometrics Analyst (Intern) Ottawa, ON

- Designed and implemented a PHP and MySQL based content management system used for specialized border surveillance.
- Interfaced with biometric equipment APIs in C++ to perform benchmarks.

PROJECTS (GitHub: [dxuprog](https://github.com/dxuprog), More Info: <https://dxuprog.github.io>)

Android documentation linking to StackOverflow

- Extracts Fully Qualified Names from data mined code on StackOverflow, and provides links from Official Android documentation to code examples.

Canadian Income Tax Calculator

- Released a free income tax calculator application on BlackBerry World in 2013, and Google Play in 2015. It has over 3500 cross-platform downloads.

Down Syndrome Patient Database (at Children's Hospital of Eastern Ontario)

- I created a patient database in PHP, MySQL and HTML that is being used by specialists for research into treatment of patients with Down Syndrome.