# David Xu

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https://dxuprog.github.io

## 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. Senate Medal for Outstanding Academic Achievement (top 3%)

## SOFTWARE DEVELOPMENT PROFIENCY

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

## 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). Developed features in a MVC architecture.
- Implemented front-end and back-end features on a distributed, multi-tier architecture with an object-relational mapping database.
- 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          Ottawa, ON
- Implemented features on server and client side network management software that relied on J2EE, Hibernate ORM, Java Swing and JavaServer Pages (JSP).
- Developed a large scale testing framework to simulate 100's of API calls per second.

**Canadian Border Services Agency**          **May 2009-Sept 2009**
Software Developer and Biometrics Analyst          Ottawa, ON
- Created a PHP and MySQL based content system for border surveillance aid.

## PROJECTS (**GitHub**: dxuprog, **More Info:** https://dxuprog.github.io)

**Android documentation linking to StackOverflow**
- Extracts Fully Qualified Names and TF-IDF weightings from code on StackOverflow, and provides links from Official Android documentation to code examples.

**Canadian Income Tax Calculator** (Google Play and BlackBerry World, 4000+ downloads)
- Created a popular tax application and utilized libraries such as AndroidPlot.

**Down Syndrome Patient Database** (at Children's Hospital of Eastern Ontario)
- Created a patient database in PHP, MySQL and HTML that is being used by specialists for research into treatment of patients with Down Syndrome.

## INTERESTS

- Member of the University of Waterloo Competitive Dragon Boat racing team.
- Captain of UW Computer Science graduate student basketball team.