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, 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). Developed features using the MVC design pattern.
- Mediated the RPC interface between SAM5620 and network switch developers.
- 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).
- Lead test developer for Nakina's automated-testing environment for their APIs.

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.
- Interfaced with biometric equipment APIs in C++ to perform benchmarks.

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)
- Sole developer of a popular tax application built using 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.