

# David Xu

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<https://dxuprog.github.io>

## EDUCATION

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

University of Waterloo, Waterloo, ON, Canada.

- Interests: Machine Learning, Software Engineering, and Comp. Neuroscience
- CGPA: 95.3%

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

Carleton University, Ottawa, ON, Canada.

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

## SOFTWARE DEVELOPMENT PROFICIENCY

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- **Languages:** Java, Python, SQL, C++, MATLAB, PHP, x86 Assembly, UNIX shells
- **Tools and Frameworks:** Eclipse, SVN, Git, JIRA, Ant, J2EE, Android, BB10

## WORK EXPERIENCE

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### **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.
- Played a lead role in designing and implementing a highly requested feature for deployment of snapshot configurations between 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 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>)

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### **Android documentation linking to StackOverflow**

- Extracts Fully Qualified Names from Java code snippets on StackOverflow, and provides links from Official Android documentations 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.