

# David Xu

dxuprog ~[AT]~ gmail (dot) com

<http://www.davidxu.net>

## WORK EXPERIENCE

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### Ultimate Software

Sept 2016-Present

Software Engineer III

Toronto, ON

- Core contributor for the Time and Attendance tracking HR web application. Implemented and improved core features used in Alpha phase and throughout General Availability.
- Implemented full-stack features using Spring Boot (Java 8) and AngularJS (JavaScript ES6). Features were used by 50k+ users, and met scale requirements for Hibernate and Postgres.
- Designed and implemented a major feature in a pipeline to translate worked time (in hours) into payroll dollars on employee pay cheques, with volume in millions of dollars.
- Developed RESTful APIs and message queues to integrate large amounts of data between microservices using RabbitMQ. Implemented cloud identity features (OAuth) on services.
- Started a pilot project for a voice assistant using DialogFlow and Google Assistant.

### Alcatel-Lucent (acquired by Nokia)

May 2012-Aug 2014

Software Development Engineer

Ottawa, ON

- Implemented front-end and back-end features in the J2EE framework for a mission critical OSS software (Nokia NFM-P) used by major telecom companies to manage their hardware.
- Played a lead role designing and implementing a highly requested feature for deployment of snapshot configurations on thousands of network elements.

### Nakina Systems (acquired by Nokia)

Jan 2010-Dec 2011

Software Developer

Ottawa, ON

- Developed a large-scale testing framework to simulate 100's of API calls per second.
- Implemented features on server and client side network management software that relied on J2EE, Hibernate ORM, Java Swing and JavaServer Pages (JSP).

### Canadian Border Services Agency

May 2009-Sept 2009

Software Developer and Biometrics Analyst

Ottawa, ON

- Created a content management system for border surveillance aid, using PHP and MySQL.

## SOFTWARE DEVELOPMENT PROFICIENCY

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- **Languages:** Java, JavaScript, Python, TypeScript, SQL, C++, PHP
- **Frameworks:** Spring, Angular (JS and 2+), J2EE, Ionic, Hibernate, RabbitMQ
- **Tools:** IntelliJ, Eclipse, Git, JIRA, Maven, Ant, Android

## EDUCATION

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### Masters of Mathematics, Computer Science, Thesis Option

2014-2016

University of Waterloo, Waterloo, ON, Canada.

- Thesis focusing on Computational Neuroscience and Machine Learning.

### Bachelors in Engineering, Biomedical & Electrical

2007-2012

Carleton University, Ottawa, ON, Canada.

- Senate Medal for Outstanding Academic Achievement (top 3%)

## PROJECTS (More Info: <https://dxuprog.github.io>)

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### Canadian Income Tax Calculator (Google Play as AISI Labs, App Store as David Xu)

- Creator of a popular mobile tax app originally built on native BlackBerry OS, ported to native Android, and then onto hybrid iOS and Android using Ionic. Has 50,000+ downloads.