David Xu

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WORK EXPERIENCE

Ultimate Software   **Sept 2016-Present**
Software Engineer III   Toronto, ON

- Contributed as a core engineer for a HR module for time and attendance tracking. Implemented core pieces in Alpha phase and continued into 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 API's 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 DiaglogFlow 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 PROFIENCY

- **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

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)

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.