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## Skills

**Languages:** Java, C/C++, JavaScript, HTML & CSS, Python, C#

**Frameworks:** Node.js, JQuery, Bootstrap, Underscore.js, Backbone.js, RequireJS, Swagger, doT.js, JUnit, QUnit, Chai, Intern, Spring, Pyramid

**Software & Tools:** YourKit profiler, Maven, Jenkins, RTC, Git, ElasticSearch, KVM Hypervisor, IBM BlueMix, Amazon EC2, some iOS and Android experience

**Databases:** SQL, MongoDB, MySQL

**Other relevant skills:** Data analytics, big data solutions, object oriented design, agile and scrum, unit and functional testing, designing scalable solutions, human-computer interaction

### Soft Skills:

- Thrive working in both team and individual environments leading to the successful delivery of products and projects.
- Experience in giving formal and impromptu demos and presentations to both software development teams and company executives.
- Excellent oral and written communication skills; I have written an article for the University of Manitoba newspaper, The Manitoban, which can be read here:  
<http://www.themanitoban.com/2011/11/sell-yourself-professionally-digitally/2716/>

## Work Experience

- **IBM - Watson Analytics Smarts, RAVE, Cognos Analytics Modelling UI** Ottawa, ON  
*Staff Software Developer (Full-stack)* *July 2014 - Present*
  - Selected to help the Cognos Modelling UI team with adoption of a new tech stack: ReactJS, mobx, SCSS, ES6, webpack and Jest. Promoted to Staff Software Developer in November 2016.
  - Performance testing using YourKit and improvement in both JavaScript and Java implementations of RAVE; performance of map bundle improved 2x and matched D3 performance in JavaScript.
  - Developed a learning/recommendation system using Java and ElasticSearch that automatically performs actions for the user based on prior preferences and use patterns.
  - Lead developer on Watson Analytics SSO server that uses the OAuth2 protocol to connect to IBM Dataworks data preparation tool.
- **IBM - Extreme Blue** Markham, ON  
*Technical Intern (Work Term 3)* *May 2013 - September 2013*
  - Project Title: Exploiting Direct-Attached Flash to Improve Price Performance of High-Density Cloud Servers - worked with Linux kernel and KVM Hypervisor to try and improve swap speed via parallel processing to leverage flash storage as a low-cost alternative to memory on a server.
  - Built the prototype solution, developed a business case for said prototype and presented our project and business strategy to IBM executives, including CEO Ginny Rometty.
- **Electronic Arts - Global Online Services - Tools Team** Burnaby, BC  
*Associate Software Engineer (Work Term 2)* *September 2012 - December 2012*
  - Built a server configuration tool allowing for quick editing of server config files on intranet portal site using Java and the Spring framework.

- **Thinkbox Software** Winnipeg, MB  
*2D/3D Software Developer (Work Term 1)* *January 2012 - April 2012*
  - Added support for multi-channel exr files, as well as Z-depth and normal buffers into Krakatoa SR.
  - Debugged and fixed the frame-buffer used in render previews of Krakatoa.
  - Rewrote Draft compositing libraries to improve performance and added ability to add or remove audio from a series of composited frames using C++ and Python.
- **University of Manitoba - Human-Computer Interaction Lab** Winnipeg, MB  
*Research Assistant* *May 2011 - December 2011*
  - Assisted with adaptableGIMP project by prototyping the interface and developing the algorithms for the recommender system using Vala.

## Projects

- **Craft Breweries of Ottawa/Gatineau**  
<https://rdraward.github.io/ottawa-craft-beer-map-es6/>
  - Used the Google Maps API along with ES6, Babel and webpack to plot out the craft breweries in the Ottawa/Gatineau region.
  - Display breweries with logos as markers, display contact info, hours of operation and my personal recommendation.
- **Manage My Restaurant iOS and Web App**  
<https://github.com/umdrawa2/4350Proj>
  - Successful final year Computer Science project.
  - Work as a team to design and develop a web application, with a surprise addition of an iOS app added a few weeks before the project deadline.
  - Unit and functional tests are included. Project was hosted using Amazon's EC2.
  - Decided to use Python Pyramid framework for server, Bootstrap for the web front-end. Gained some experience in iOS and Objective-C programming, along with Selenium testing.

## Volunteering and Extracurriculars

- **IBM - nextWave** Ottawa, ON  
*Co-Chair* *June 2015 - December 2016*
  - Helped to run the group for new hires to create a sense of community within the lab.
  - Organize and run fun events for the entire IBM Ottawa lab, including private screenings of the latest Star Wars movies, bringing in food trucks and throwing an end of year holiday social.
- **IBM - Technical Vitality Team - TechChallenge** Ottawa, ON  
*Co-Chair* *September 2015 - July 2016*
  - Organize and run hackathons and tech challenges for the IBM Ottawa lab.
  - Recent challenges included using Watson APIs and the Weather Company API on Bluemix.
  - Community hackathons used to develop prototypes for local charity and non-profit organizations.

## Education

- **University of Manitoba** Winnipeg, MB  
*Bachelor of Computer Science (Honors)* *2009 - 2014*
  - Minor in Management from the Asper School of Business
  - Dean's Honor List

**References:** Available upon request