(415) 283-9013
University of Waterloo
3A Computer Science

ERICA XU

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SUMMARY

- Proficient in web development with JavaScript (jQuery, Backbone.js), CSS (SASS), and HTML
- Experienced with programming in Java, PHP/MySQL, C/C++, and Python
- Experienced with Node.js, MongoDB, MapReduce, Git/SVN, AngularJS, Raphaël, and Unix

EMPLOYMENT

Software Engineer Intern   **Tagged, Inc.**   **Spring 2014**

Pets Game (PHP, JavaScript/Backbone.js, HTML/CSS)

- Implemented a number of features, including a new monthly ranking UI with Ajax pagination
- Fixed a series of major IE 11 related bugs in registration and contacts importing

Internal A/B Testing Framework (PHP, JavaScript, HTML/CSS)

- Designed and implemented frontend for managing A/B tests and overrides for employees

Software Engineer Intern   **MappedIn, Inc.**   **Summer 2013**

Map Editor (JavaScript, Node.js, MongoDB, Raphaël)

- Implemented undo/redo using command pattern, multi-item move/delete, rectangular selection, and auto-alignment, estimated to increase editing productivity by 40%
- Implemented new interactive interface using Google Maps API for perspective editor
- Designed and implemented backend and frontend of a quality feedback widget

Venue Analytics (JavaScript, MongoDB, MapReduce, SASS)

- Created new analytics metrics to make it more informative and redesigned layout and page flow to make it easier to use, estimated to increase value of the analytics product by 50%

Web Developer Intern   **Dominion Bond Rating Service**   **Summer 2012**

- Maintained public website and implemented features, created browser tests with Selenium

PROJECTS

- **MyFood** (JavaScript, AngularJS, SASS). Mobile web app that simplifies meal planning. Keeps track of fridge/grocery items and shows missing ingredients for the planned meals
- **UW Course Indexer** (JavaScript, SASS, PHP). Fluid and responsive course search tool for 5,600+ courses with data fetch on demand and browser cache
- **MarmoUI** (JavaScript, CSS). User script and Chrome extension that adds functionality and visual appeal to Waterloo's testing server "Marmoset" with real-time data querying via Ajax
- **Code Combat** (Java). Educational asteroids game with a programmable spacecraft

EDUCATION

Waterloo, ON   **University of Waterloo**   **Fall 2011 – Present**

- Candidate for Bachelor of Computer Science, currently in 3rd year of study