

William McDonald

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Work Experience

JavaScript Developer, Bazaarvoice Inc., Austin, TX. Sept. – Dec. 2013

- Worked in a full JavaScript stack including node.js and PhantomJS
- Created a library and website to automate detection of product installation issues, saving developers dozens of hours every week
- Built a web application in node.js with socket.io to view render speed data from a Kafka feed in real-time
- Designed and implemented a scraping tool in node.js to collect and analyse client configuration data, enabling better prioritization of work
- Recognized at a global R&D meeting for contributions made to four open-source projects used by Bazaarvoice

Python Developer, Wind River Systems Inc., Ottawa, ON, Jan. – Apr. 2013

- Architected a new distributed testing system with intelligent caching of test targets, which can improve testing speeds by up to 50%
- Created a web application using Python and Bottle to aggregate code coverage results into easily queryable charts
- Automated conversion of test results into an HTML spreadsheet format, reducing hours of work into seconds of computation

Personal Experience

- 5 years programming in JavaScript, Python, C++ and other languages
- JavaScript library to create motion charts with the HTML5 canvas
- Tetris, Conway's Game of Life and Snake using HTML5 canvas
- Personal website to host my work, wmcd.ca
- Active as [@WalrusCow](https://github.com/WalrusCow) on GitHub

Education

Bachelor of Mathematics in Computer Science with Business Option, University of Waterloo (expected graduation: 2016)

- Dean's Honours List, Winter 2012 – present
- Implemented Hearts in C++, with both human and computer players
- Among top 10 best optimized compilers for CS 241 course