

## Technical Adeptness

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- Languages: C, C++, SQL, PHP, Shell, Racket (Scheme), Bash, Makefile, Javascript, HTML
- Frameworks: jQuery, Node.js, MKS Integrity, AJAX, JSON, SOAP
- Tools: CVS, Git, Perforce, Vim

## Work Experience

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| <b>BlackBerry Limited</b>   | <b>Software Tools Developer – Intern</b>    | <b>Sept – Dec 2012</b>  |
| <ul style="list-style-type: none"><li>• Architected web-based interfaces for level-1 support &amp; administration of BlackBerry's production tools, decreasing the response time for in-house customers significantly</li><li>• Programmed automation scripts reminding users of pending requests that require action, eliminating the need for manual correspondence</li><li>• Engineered backward compatible code for integrating both database and web service calls together to maintain data consistency</li></ul> |   |                         |
| <b>BlackBerry Limited</b>   | <b>Software Support Specialist – Intern</b> | <b>Jan – April 2012</b> |
| <ul style="list-style-type: none"><li>• Streamlined the support and administration process by maintaining detailed documentation of the support process</li><li>• Expedited support responses and reduced the response time from over 3 hours to less than 30 minutes</li><li>• Increased support efficiency by implementing automation scripts that service simple administration requests</li></ul>   |   |                         |

## Education

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| <b>Waterloo, ON, Canada</b>  | <b>University of Waterloo</b> | <b>May 2014 – on going</b>         |
| <ul style="list-style-type: none"><li>• Candidate for Master of Mathematics – Computer Science</li><li>• Graduate Coursework: Distributed &amp; Network Centric Computing, Cloud &amp; SW Defined Networking</li></ul>   |                               |                                    |
| <b>Waterloo, ON, Canada</b>  | <b>University of Waterloo</b> | <b>Sept 2009 – Dec 2013</b>        |
| <ul style="list-style-type: none"><li>• Bachelor of Computer Science, Honours with Business Option</li><li>• Undergraduate Coursework: Distributed Systems; Computer Networks; Operating Systems; Algorithms; Concurrent &amp; Parallel Programming; Object-Oriented Software Development; Computer Security &amp; Privacy</li></ul> |                               | 4 <sup>th</sup> year GPA: 3.57/4.0 |

**Certified CompTIA A+ general technician** **2007**

## Projects

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| <b>Backend for iOS Mobile app</b>  | <b>CrowdCycle</b>       | <a href="https://github.com/nexus-uw/crowdcycle-backend">https://github.com/nexus-uw/crowdcycle-backend</a> |
| <ul style="list-style-type: none"><li>• Designed the software architecture for implementation</li><li>• Implemented the backend API for the client-server calls to access the database using Node.js for framework</li><li>• In collaboration with 3 students, created a detailed design document highlighting design choices and software styles used</li></ul>   |                         |   |
| <b>Remote Procedure Call</b>   | <b>Evaluation: 105%</b> |   |
| Implemented a simplified version of Remote Procedure Call that simulates multiple clients/servers and a single binder.   |                         |   |
| <ul style="list-style-type: none"><li>• Developed the RPC system based on the functionality required using TCP/IP for socket programming</li><li>• Implemented the system using OOP in C++ such as inheritance and virtual class functions</li><li>• Designed the process of marshalling and un-marshalling of data between the RPC entities using C pointers</li><li>• Designed an efficient database system which includes caching for the binder and the server to keep track of various details</li><li>• Compiled the code for the RPC system into a static library to be used for marking purposes</li></ul> |                         |   |

## Assignments

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| <b>WLPP language (subset of C++) compiler</b>  | <b>Evaluation: 100%</b> |
| <ul style="list-style-type: none"><li>• Implemented a LR-1 and a LL parser along with a lexical analyzer</li><li>• Designed an efficient WLPP to MIPS compiler in C++</li><li>• Attained 20th rank in code efficiency out of over 250 students</li></ul> |                         |