

# Samuel M. D. Chan

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## Education

2012.09–Present

### University Of Ottawa

- Honours Bachelor of Science with a Double Major in Computer Science and Criminology
- Cumulative Grade Point Average: 8.89Dean's List for consecutive years since 2012
- Graduation on April 2017
- Awarded University of Ottawa's Admission Scholarship of \$12,000 over four years

## Employment History

2015.05–Present

### IM Technician Support at Natural Resources Canada

- Full-stack web development in PHP and JavaScript on Natural Resources Canada's Geodetic Reference Systems
- Developed several web and intranet applications displaying data on graphs using flot library
- Resolved security issues such as cross-site scripting, browsable directories
- Assisted in creating new databases
- Wrote PHP scripts for internal use for management of database
- Updated front-end framework from Web Experience Toolkit 3 to Web Experience Toolkit 4

2015.05–2015.08

### Intern at Ottawa Chinese Bible Church

- Directed Superhero Camp for kids: build schedule, organized games, promoted camp, recruited volunteers, lead music and dance

2011.06–2014.11

### McDonald's Restaurant, Orillia and Ottawa, ON

- Employee of the month in August, 2012
- Developed effective organizational and communication skills, assembling orders and maintaining cleanliness
- Assumed a leadership role bringing in and organizing stock, as well as making suggestions to manager ordering stock for the week

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|-------------------------------|---|
| 2009.06–2009.08               | <b>Indian Curry Hut, Akureyri, Iceland</b> <ul style="list-style-type: none"> <li>• Cashier and cleaner</li> </ul>  |
| Summers of 2008<br>2009, 2010 | <b>Svalbarðsstrandarhreppur Municipality, Iceland</b> <ul style="list-style-type: none"> <li>• Summer Community Youth Worker</li> <li>• Grounds maintenance on both public and senior spaces</li> </ul> |

## Programming Languages

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|------------------------|---|
| <b>Java</b>            | <ul style="list-style-type: none"> <li>• Fluent in Java development</li> <li>• Mastery over data structures including binary trees, hash-tables, and matrices</li> <li>• High level of understanding over various sorting methods including merge-sort and bucket sort</li> <li>• Skilled in debugging and using JUnit</li> </ul>                       |
| <b>Ruby On Rails</b>   | <ul style="list-style-type: none"> <li>• Completed course on Ruby in <i>Codecademy</i></li> <li>• Used Ruby on Rails for a final project on developing a client-server web application, including user interface</li> </ul>   |
| <b>HTML and CSS</b>    | <ul style="list-style-type: none"> <li>• Completed a course on HTML and CSS in <i>Codecademy</i></li> <li>• Experience using Web Experience Toolkit 4, a front-end framework</li> </ul>   |
| <b>JavaScript</b>      | <ul style="list-style-type: none"> <li>• Fluent at using JQuery</li> <li>• Taking course on ReactJS on <i>Codecademy</i></li> <li>• Used JavaScript for creating, maintaining, and updating web applications for the Geodetic Reference Systems branch in Natural Resources Canada</li> <li>• Skilled at reading and manipulating XML files.</li> </ul> |
| <b>SQL</b>             | <ul style="list-style-type: none"> <li>• Experience using PostgreSQL, MySQL and Oracle for data queries</li> <li>• Understanding of normalization</li> <li>• Used PostgreSQL as a database for a final project on developing a web application with PHP</li> </ul>  |
| <b>PHP</b>             | <ul style="list-style-type: none"> <li>• Completed course on PHP in <i>Codecademy</i></li> <li>• Experience using PHP to design a client-server web application</li> <li>• Experience using PHP to take text and log files, read them, and insert relevant data into a database</li> </ul>  |
| <b>Other languages</b> | <ul style="list-style-type: none"> <li>• Worked with R, Prolog, Scheme, Python, and Perl in academic courses</li> </ul>   |

## Software Development Skills

- Skilled at identifying software requirements
- Deep understanding of object-oriented programming
- Understanding of different architectural patterns including MVC and Client-Server
- Comprehension of testing strategies including white-box testing, and sandwich integration testing
- Grasp of different design patterns including delegation pattern, singleton pattern, and general hierarchy pattern
- Extensive experience building UML diagrams and state diagrams
- Used Git, Gitflow, and SourceTree for version control

## Volunteer Work and Extracurricular

2016.09–Present	<b>Ottabotics</b> <ul style="list-style-type: none"><li>• Student robotics club</li><li>• Made a simple autonomous vehicle that competed internally</li><li>• Currently designing a sophisticated drone to compete in the International Aerial Robotics Competition</li></ul>
2016.09–Present	<b>Youth Group Leader at Ottawa Chinese Bible Church</b> <ul style="list-style-type: none"><li>• Organizing Friday youth group events with other leaders</li></ul>
2015.04–2016.04	<b>EECS Undergraduate Representative at the Faculty Council</b> <ul style="list-style-type: none"><li>• Attended faculty meetings to represent the undergraduate students</li></ul>
2014.10–2015.01	<b>Veritas Event on University of Ottawa Campus</b> <ul style="list-style-type: none"><li>• Represented Intervarsity Christian Fellowship</li><li>• Organized and advertised the event in collaboration with several other campus clubs</li></ul>
2014.09–2016.04	<b>Small Group Leader with IVCF</b> <ul style="list-style-type: none"><li>• Attend regular meetings</li><li>• Develop, organize, and promote events</li><li>• Co-lead Bible studies</li></ul>
2014.09–2014.09	<b>OCBC Gotta Move! Fitness Camp</b> <ul style="list-style-type: none"><li>• Children's Evangelistic Fellowship Training</li><li>• Collaborate games</li><li>• Actively caring for the children</li></ul>
2014.02–2014.04	<b>Foot Patrol on University Ottawa Campus</b> <ul style="list-style-type: none"><li>• Provide safe walks</li><li>• Be the eyes of security on campus</li></ul>
2009.09–2010.06	<b>President of Student Council Valsárskóli, Iceland</b> <ul style="list-style-type: none"><li>• Raised fund for school trip to Denmark</li></ul>