Samuel M. D. Chan

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Education

2012.09–2017.06   **University Of Ottawa**
- Honours Bachelor of Science with a Double Major in Computer Science and Criminology, Magna Cum Laude
- Cumulative Grade Point Average: 8.89
- Dean's List for consecutive years since 2012
- 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, Ottawa, ON**
- Full-stack web development in PHP and JavaScript on Natural Resources Canada's Geodetic Reference Systems
- Developed several web and intranet applications displaying all sorts of data on graphs using flot library
- Resolved security issues such as cross-site scripting and browsable directories
- Assisted in updating the database
- Assisted in creating new tables in the database
- Wrote PHP and Python scripts for internal use for management of database
- Updated front-end framework from Web Experience Toolkit 3 to Web Experience Toolkit 4
- Added a web feature of downloading dynamically generated PDFs of station reports using TCPDF

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
- Participated in weekly Friday Youth Fellowship activities

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
2009.06–2009.08	**Indian Curry Hut, Akureyri, Iceland**
	● Cashier and cleaner
Summers of 2008 2009, 2010	**Svalbarðsstrandarhreppur Municipality, Iceland**
	● Summer Community Youth Worker
	● Grounds maintenance on both public and senior spaces

Software Development Skills

- Skilled at identifying software requirements
- High level of understanding over various sorting methods including merge-sort and bucket sort
- Understanding of object-oriented programming and concepts such as inheritance and polymorphism
- 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
- Experience building UML diagrams and state diagrams
- Used Git, Gitflow, and SourceTree for version control
- Grasp of the World Wide Web and its use of Uniform Resource Identifiers and Hypertext Transfer Protocol
- Skilled at calculating worst case runtime
- Learned optimization strategies such as the Simplex algorithm

Programming Languages

Java
- Fluent in Java development
- Skilled with data structures including binary trees, hash-tables, and matrices
- Skilled in debugging and using JUnit
- Used GUI in school project

Ruby On Rails
- Completed course on Ruby in *Codeacademy*
- Used Ruby on Rails for a final project on developing a client-server web application, including user interface

HTML and CSS
- Completed a course on HTML and CSS in *Codecademy*
- Experience using Bootstrap 3 for personal projects
- Experience using Web Experience Toolkit 4, another front-end framework

JavaScript
- Fluent at using JQuery, including its AJAX methods
- Used JavaScript for creating, maintaining, and updating web applications for the Geodetic Reference Systems branch in Natural Resources Canada
- Skilled at reading and manipulating XML files

SQL
- Experience using PostgreSQL, MySQL and Oracle for data queries
- Understanding of normalization
- Used PostgreSQL as a database for a final project on developing a web application with PHP

PHP
- Completed course on PHP in *Codeacademy*
- Experience using PHP to design a client-server web application
- Experience using PHP to take text and log files, read them, and insert relevant data into a database

Other languages
- Worked with R, Prolog, Scheme, Python, and Perl in academic courses

Volunteer Work and Extracurricular

2017.05–Current	**Blog: A Cowboy with no Cows**

- Designed and currently managing my own blog website
- Laravel 5.4 PHP Framework
- jQuery
- Bootstrap 3
- http://www.cowboynocows.com

2016.09–2017.04 **Ottabotics**

- Student robotics club
- Made a simple autonomous vehicle that competed internally

2016.09–Present **Youth Group Leader at Ottawa Chinese Bible Church**

- Organizing Friday youth group events with other leaders

2015.04–2016.04 **EECS Undergraduate Representative at the Faculty Council**

- Attended faculty meetings to represent the undergraduate students

2014.10–2015.01 **Veritas Event on University of Ottawa Campus**

- Represented Intervarsity Christian Fellowship
- Organized and advertised the event in collaboration with several other campus clubs

2014.09–2016.04 **Small Group Leader with IVCF**

- Attend regular meetings
- Develop, organize, and promote events
- Co-lead Bible studies

2014.09–2014.09 **OCBC Gotta Move! Fitness Camp**

- Children's Evangelistic Fellowship Training
- Collaborate games
- Actively caring for the children

2014.02–2014.04 **Foot Patrol on University Ottawa Campus**

- Provide safe walks
- Be the eyes of security on campus

2009.09–2010.06 **President of Student Council Valsárskóli, Iceland**

- Raised fund for school trip to Denmark