

Alexander William Wong

University of Alberta
Faculty of Science – Computing Science
2-59B2 Computing Science Centre
Edmonton, AB T6G 2S4

Phone: +1 780-492-2285
Email: alex.wong@ualberta.ca
Homepage: www.alexander-wong.com

Education

M.Sc. Computing Science

University of Alberta

Supervisors: Dr. Abram Hindle, Dr. Nilanjan Ray

Sep 2018 to *Current*
Edmonton, Alberta, Canada

B.Sc. w/ Specialization in Computing Science - Software Practice

University of Alberta

Sep 2010 to Jun 2016
Edmonton, Alberta, Canada

Work Experience

Graduate Teaching Assistant

University of Alberta

TA for Fall 2018 CMPUT 174 (Introduction to the Foundations of Computation I) and Winter 2019 CMPUT 404 (Web Based Information Systems). Created in-depth lab materials and instructed lab sessions.

Sep 2018 to *Current*
Edmonton, Alberta, Canada

Software Development Contractor

EPCOR Utilities Incorporated

Nine month contract for DevOps team. Completed outstanding issues and deployed public facing Interactive Voice Response (IVR) integration with Schneider SCADA product for grid outage notifications.

Nov 2017 to Jul 2018
Edmonton, Alberta, Canada

Software Developer

Go Auto Corporate

Built web applications for Go Auto dealerships across Canada for inventory, contract, and sales management. Built programmatic text and call features for interactive advertisements and user targeted sales.

Jan 2017 to Jun 2017
Edmonton, Alberta, Canada

Software Development Contractor

Telus Corporation

Six month contract for internal networking team. Hardened internal web services with authentication modules and SSL. Wrote Netconf/YANG parsing middleware for converting hardware signals for API use.

Dec 2016 to May 2017
Edmonton, Alberta, Canada

Course Developer

University of Alberta

Created course materials for Fall 2016 CMPUT 396 (Topics in Computer Science: Games, Puzzles, and Algorithms). Built solvers and interactive puzzles (mazes, peg solitaire, sliding tile, chess, Go, and Hex).

Jun 2016 to Aug 2016
Edmonton, Alberta, Canada

Software Development Contractor

Telus Corporation

Six month contract for OptikTV operations team. Created interactive dashboards for diagnostics and visualizing OptikTV system health. Integrated with Splunk for additional analytics and data processing.

Mar 2016 to Aug 2016
Edmonton, Alberta, Canada

Undergraduate Teaching Assistant

University of Alberta

Jan 2016 to Apr 2016
Edmonton, Alberta, Canada

TA for Winter 2016 CMPUT 404 (Web Based Information Systems). Designed lab material for learning web system fundamentals and building practical applications. Led lab sessions and graded submissions.

Software Developer Intern

Pason Systems Corporation

May 2014 to Aug 2015
Calgary, Alberta, Canada

Sixteen month specialization industrial internship requirement. Supported development work for oil and gas drilling technology. Contributed to measuring rig device usage to enable "pay per use" billing feature.

Publications

Journal Papers

- J1** "Nutritional quality and price of food hampers distributed by a campus food bank: a Canadian experience.", Mahsa Jessri, Arvin Abedi, Alexander Wong, Ghazaleh Eslamian.
Journal of Health, Population, and Nutrition, 2014 Jun; 32(2): 287–300. Researcher/Co-Author

Conference Papers

- C1** "What do developers know about machine learning: a study of ML discussions on StackOverflow", Hareem Sahar, Abdul Ali Bangash, Alexander William Wong, Shaiful Chowdhury, Abram Hindle, Karim Ali.
International Conference on Mining Software Repositories (MSR 2019), 2019 Researcher/Co-Author

Posters

- P1** "Syntax and Stack Overflow: A methodology for source code error and fix extraction"
Reverse EXPO, 2019, University of Alberta, Edmonton, Canada Author

Presentations and Lectures

- T2** "INSYN: Recommendation Models for Syntactically Incorrect Source Code"
ATB Financial, Jan 31 2019, Edmonton, Canada Invited Presenter
- T1** "Introduction to Generative Adversarial Networks"
Edmonton Python User Group, Sep 11 2017, Edmonton, Canada Volunteer Presenter