

# Angad Kalra

Toronto, ON

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[angadkalra.com](http://angadkalra.com)

[github.com/angadkalra](https://github.com/angadkalra)

## Education

### MSc Applied Computing, Data Science Concentration

September 2018 – December 2019

University of Toronto, Department of Computer Science

Courses: Data Science Consulting, Neural Networks, Statistical Machine Learning, Quantum Computing

### BSc Computer Science and Mathematics

September 2012 – May 2018

University of British Columbia

## Technical Experience

Galiano Medical Solutions – Vancouver, BC

May 2018 – September 2018

### Full Stack/Machine Learning Engineer

- Implemented web application allowing doctors to search through patient database and find similar X-rays to their patient's.
- Search is combination of deep learning and Elasticsearch document search.
- Developed using ReactJS, Django, TensorFlow, Docker, and Elasticsearch.

Center for Molecular Medicine and Therapeutics – Vancouver, BC

May 2017 – August 2017

### Research Assistant

- Implemented deep-CNN in TensorFlow to predict protein binding sites for the FOXP3 protein.
- Transformed dataset of 80 000 DNA sequences to one-hot encodings and trained the network for 12 hours.
- Achieved 80% prediction accuracy on first attempt.

Vision Critical Communications Inc. – Vancouver, BC

January 2016 – August 2016

### Software Development Intern

- Responsibilities were fixing bugs, writing integration tests, improving test coverage in deployment pipeline and learning new technologies simultaneously.
- Replaced legacy code by rewriting with HTML5 and various JavaScript frameworks (Grunt, jQuery, Jasmine).

## Recent Projects ([github.com/angadkalra](https://github.com/angadkalra))

Co-Director of Code the Change Foundation

- Created nonprofit in Vancouver, BC with a group of computer scientists and engineers from UBC.
- Purpose is to help nonprofits and charities around the world with their technical needs. All projects are open-source.
- Completed 10 projects so far, and have 8 ongoing. Available at: <https://codethechangeubc.org/projects.html>

Mea

- Developed web application for a course project that allows users to find content curators that share similar interests in movies, books, podcasts, and TV-shows.
- Implemented front-end in ReactJS and back-end in Django with MySQL database.

## Technical Skills

**Programming Languages:** Python 3, JavaScript.

**Libraries:** Tensorflow, Numpy, Pandas, Scikit-Learn, PySpark.

**Frameworks:** Django, Flask, ReactJS, Apache Spark.

**Databases:** PostgreSQL, MySQL, Elasticsearch.