

Angad Kalra

Toronto, ON

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angadkalra.com

github.com/angadkalra

Education

MSc in Applied Computing, Data Science Concentration

September 2018 -December 2019

University of Toronto, Department of Computer Science

Courses: Data Science Methods Communication and Collaboration, Statistical Machine Learning, Quantum Computing, Machine Learning in Healthcare

BSc Computer Science and Mathematics

September 2012 – May 2018

University of British Columbia

Technical Experience

Agile Alpha Inc. – Toronto, ON

November 2018 – Present

Data Scientist

- Performing data analysis on Ethereum blockchain using Google's BigQuery dataset.
- Modeling addresses and transactions as directed network to identify significant users within blockchain.
- Implementing unsupervised machine learning algorithms in order to detect clusters and relationships.

Galiano Medical Solutions – Vancouver, BC

May 2018 – September 2018

Full Stack/Machine Learning Engineer

- Implemented a web application allowing doctors to search through patient database and find similar X-rays to their patient's.
- Built search functionality as a 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 a deep-CNN in TensorFlow to predict protein binding sites for the FOXP3 protein.
- Transformed a dataset of 80,000 DNA sequences to one-hot encodings and trained the network for twelve hours. Achieved 80% prediction accuracy on first attempt.

Recent Projects

Co-Director of Code the Change Foundation

- Created a nonprofit in Vancouver, BC, with a group of engineers from UBC.
- Purpose is to help nonprofits and charities around the world with their technical needs. All projects are open-source and available at: <https://codethechangeubc.org/projects.html>

Portfolio Selection Strategies using Quantum Computing

- Using D-Wave Leap (quantum annealer), ran graph algorithms for NP-complete problems on financial datasets in order to compare solution quality against classical algorithms.

Technical Skills

Programming Languages: Python 3, JavaScript.

Libraries: Tensorflow, NumPy, Pandas, scikit-Learn, PySpark.

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

Databases: PostgreSQL, MySQL, Elasticsearch.