Angad Kalra

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angadkalra.com
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)

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

NYT Movie Review Analysis

- Performed data analysis on reviews by NY Times movie critics.
- Compared sentiment analysis of reviews to critic's picks.
- Applied PCA to movie characteristics to figure out which features influence revenue the most.

Technical Skills

Programming Languages: Python 3, JavaScript.
Libraries: Tensorflow, Numpy, Pandas, Scikit-Learn, PySpark.
Frameworks: Django, Flask, ReactJS, Apache Spark.
Databases: PostgreSQL, MySQL, Elasticsearch.