Angad Kalra

Vancouver, BC
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angadkalra.com
github.com/angadkalra

Education

- **University of Toronto – MSc Applied Computing** September 2018 – December 2019
- **University of British Columbia** – Combined Major **Mathematics and Computer Science** September 2012 – May 2018

Technical Experience

Galiano Medical Solutions – Vancouver, BC May 2018 – August 2018

Full Stack/Machine Learning Engineer

- Developed an application that allows doctors to find similar cases to their current patients' in order to reach the most probable diagnosis quicker. Intended for use on a tablet within hospitals/clinics, this "doctor's assistant" streamlines the process of receiving a complex case, consulting with other physicians, and delivering a diagnosis. Used ReactJS, Flask, and TensorFlow.

Centre for Molecular Medicine and Therapeutics – Vancouver, BC May 2017 – August 2017

Undergraduate Research Assistant

- Developing and applying statistical and computational models for integrating and interpreting diverse types of genomics data, with the ultimate goal of disentangling meaningful molecular associations for common and complex pathologies, such as neurodegenerative and psychiatric disorders.

Vision Critical Communications Inc. – Vancouver, BC January 2016 – August 2016

Software Development Intern

- In the first four months, responsibilities were fixing defects, writing integration tests, improving test coverage in deployment pipeline and learning new technologies simultaneously. New technologies included ASP.NET MVC, C# and Visual Studio.
- In the last four months, fixing defects and writing tests continued. Additionally, developed in HTML5 and various JavaScript frameworks (Grunt, jQuery, Jasmine) to replace outdated Flash technology that existed in product.

Recent Projects (available on github.com/angadkalra)

Mea

- Web application that allows people to make and receive recommendations on the entertainment content they enjoy such as books, podcasts, movies, and TV shows. Built using React and Django.

Code The Change UBC (community of engineering students using their technical skills to drive social change)

- Verna J. Kirkness STEM Education Program is a local charity that we built a database & web app for in order to help them organize their data, approach donors for funding, and save their employees time and money. We used Python and Django for the web app, and MySQL for the database, all hosted on DreamHost.

Peak Predictor

- Implemented deep CNN described in this paper: http://www.biorxiv.org/content/early/2015/10/05/028399. Network has 3 convolutional layers and 2 fully connected layers, and uses batch normalization, ReLU, max pooling, and dropout.

Proficient Technical Skills

- Python 3, JavaScript.
- Tensorflow, Scikit Learn, Numpy, Pandas.
- Django, Flask.