

Angad Singh Kalra

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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, Quantum Computing, Machine Learning in Healthcare, Algorithms for Collective Decision Making

BSc Computer Science and Mathematics

September 2012 – May 2018

University of British Columbia

Technical Experience

Bridge7 AI – Toronto, ON

May 2019 - Present

Machine Learning Engineer

- Refactored legacy ML pipeline from Matlab to Python and integrated as a service into web app.
- Applied latest multi-modal deep learning research to implement end-to-end feature extraction and model training system.

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.

Vision Critical – Vancouver, BC

January 2016 – August 2016

Software Developer

- 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

Early Prediction of Sepsis in ICU – PhysioNet 2019 Computing in Cardiology Challenge

- Implemented various ML models (Logistic Regression, SVM, Random Forest, XGBoost) in Python and trained/validated on 40000 ICU patients in order to predict onset of sepsis 6 hours early. Achieved 75% AUC validation score.

Co-Director of Code the Change Foundation

- Created non-profit organization with purpose of helping nonprofits and charities around the world with their technical needs. All projects are open-source and available at: <https://codethechangeubc.org/projects.html>
- 11 projects completed, 6 in progress, and 17 charities helped.

Technical Skills

Programming Languages: Python, JavaScript.

Libraries: TensorFlow, NumPy, Pandas, scikit-Learn, PySpark, Matplotlib.

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

Databases: PostgreSQL, MySQL, Elasticsearch.