# Shawn Anderson

Data Shamar

## TECHNICAL SKILLS

Big Data Toolbox

MapReduce Cassandra Spark Pandas Matplotlib SKLearn Tensorflow Keras

Programming

Python Java C++ Scala

Linux Git Vim Command Line

HTML CSS Javascript SQL

Algorithmic

Machine Learning Neural Networks Reinforcement Learning Bayesian Modeling

Graph Theory Probability

### TECHNICAL EXPERIENCE

**Software Engineer** Sept. 2017 – Present Fire Out, Burnaby BC

- Implementing and training a model to detect the presence and growth of fire in a video stream
- Model training with Tensorflow, model execution on a Rasberry Pi

Contract Developer Aug. 2016 – Sept. 2017 Four Winds and Associates, Edmonton AB

- Full stack development of Community Demographics web database
- Back-end development with Python and django web-framework
- Front-end development with Javascript and Angular framework

Junior Developer May – Aug. 2015 Government of the Northwest Territories Dpt. Justice - Informatics , Yellowknife NT

• Developed a web API using Scala with Play Framework to serve as the backend for online fines payment

Business Support Analyst May – Aug. 2014 Government of the Northwest Territories Dpt. Health and Social Services, Yellowknife NT

• Developed a front-end system to display medical travel data using PHP, HTML, JavaScript and SQL

Helpdesk Analyst Sept. 2013 – May 2014 University of Alberta Dpt. Computing Science, Edmonton AB

 Extensive experience with Linux systems and networks

#### Project Experience

Predicting Limb Movement Intention From EEG Signals
University of Alberta Jan. 2016 - Apr. 2016

 Given EEG data recorded on subjects in both rest and movement, my team used hidden markov models to predict movement intention

Instrument Recognition in African Music Recordings
University of Alberta Sept. 2015 – Dec. 2015

- Decomposed African songs into feature vectors via the open source signal processing tool Marsyas
- Experimented with various Maching Learning techniques including SVM, KNN, and Logistic Regression to classify which instruments are present in a song

## Professional Development

Deep Learning Using Tensorflow DEC. 2016
Google (via udacity.com)

Bitcoin and Cryptocurrency Technologies Aug. 2016 Princeton University (via Coursera.com)

Probabilistic Graphical Models Apr. 2016 Stanford University (via Coursera.com)

Maching Learning Dec. 2015 Stanford University (via Coursera.com)

## **EDUCATION**

MSc. Computing Science, Big Data Sept. 2017 – Present Simon Fraser University, Burnaby Canada

- Teaching Assistant Implications of a Computerized Society SEPT. 2017 – PRESENT
- Machine Learning, Data Mining, Big Data SEPT. 2017 – PRESENT

BSc. Computing Science SEPT. 2011 – APR. 2016 University of Alberta, Edmonton Canada

• VP Social Executive Member Undergraduate Association of Computing Science SEPT. 2014 – MAY 2015