Shawn Anderson

Big Data student at Simon Fraser University

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 Graph Theory Reinforcement Learning Bayesian Modeling Probability

Technical Experience

Software Engineer

September 2017 – Present

 $Fire\ Out$

• 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 August 2016 – September 2017 Four Winds and Associates

- Full stack development of various web applications
- Back-end development with Python and django web-framework
- Front-end development with Javascript and Angular framework

Junior Developer

May - August 2015

Government of the Northwest Territories
Dpt. Justice - Informatics

• Developed a web API using Scala with Play Framework

to serve as the backend for online fines payment

Business Support Analyst May – August 2014 Government of the Northwest Territories

Dpt. Health and Social Services - Information Services

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

Helpdesk Analyst September 2013 – May 2014 University of Alberta Dpt. Computing Science

• Extensive experience with Linux systems and networks

587-501-3566

http://www.shawnwanderson.com

shawnwanderson

Project Experience

Movement Prediction Based on EEG Signals Using Hidden Markov Models

University of Alberta

January 2016 - April 2016

• Given EEG data recorded on subjects in both rest and movement, my team generated a model to predict movement intention

Instrument Recognition in African Music Field Recordings September 2015 – December 2015 University of Alberta

- 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

- Implications of a Computerized Society Teaching Assistant September 2017 – December 2017 Simon Fraser University
- Deep Learning Using Tensorflow December 2016 Google (via udacity.com)
- BITCOIN AND CRYPTOCURRENCY TECHNOLOGIES AUGUST 2016 Princeton University (via Coursera.com)
- Probabilistic Graphical Models April 2016 Stanford University (via Coursera.com)

EDUCATION

MSc. Computing Science, Big Data Program
SEPTEMBER 2017 – PRESENT
Simon Fraser University, Burnaby Canada

BSc. Computing Science

September 2011 – April 2016 University of Alberta, Edmonton Canada