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Shawn Anderson

1 Technical Skills

Big Data Toolbox

MapReduce	Cassandra	Spark	Pandas
Matplotlib	SKLearn	Tensorflow	Keras

Programming

Python	Java	C++	Scala
Linux	Git	Vim	Tmux
HTML	CSS	Javascript	SQL

Algorithmic

Machine Learning	Neural Networks	Graph Theory
Reinforcement Learning	Bayesian Modeling	Geometry

2 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 Raspberry 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

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3 Project Experience

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 Machine Learning techniques including SVM, KNN, and Logistic Regression to classify which instruments are present in a song

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

4 Professional Development

- Teaching Assistant
IMPLICATIONS OF A COMPUTERIZED SOCIETY
Simon Fraser University
- MACHINE LEARNING
Stanford University (via Coursera.com)
- PROBABILISTIC GRAPHICAL MODELS
Stanford University (via Coursera.com)
- DEEP LEARNING USING TENSORFLOW
Google (via udacity.com)
- BITCOIN AND CRYPTOCURRENCY TECHNOLOGIES
Princeton University (via Coursera.com)

5 Education

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

BSc in Computing Science SEPTEMBER 2011 – APRIL 2016
University of Alberta, Edmonton Canada