

Shawn Anderson

Visionary with a passion for taming and harnessing emergent systems



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TECHNICAL SKILLS

Big Data Toolbox

SQL	Python	Numpy	Pandas
Scipy	PyBrain	Keras	Spark
Jupyter	Matplotlib	D3	Powerpoint

Programming

Python	Javascript	C++	Scala
Linux	Command Line	Vim	Git

Artificial Intelligence

Deep Learning	Reinforcement Learning
Evolution Strategies	Tensor Decomposition
Probabilistic Graphical Models	Distributed Computing

PROJECT EXPERIENCE

Visualizing and Forecasting the Cryptocurrency Ecosystem SPRING 2018
Simon Fraser University

State of the Art Reinforcement Learning and Evolution Strategy: A comparison of Scalability SPRING 2018
Simon Fraser University

Deploying a Distributed Cluster of Virtual Machines with CloudStack, Cloudera, and Hadoop SPRING 2018
Simon Fraser University

Constructing a Scalable System for Identifying Arbitrage in Cryptocurrency and Foreign Exchange Markets FALL 2017
Simon Fraser University

Predicting Limb Movement Intention From EEG Signals SPRING 2016
University of Alberta

Instrument Recognition in African Music Field Recordings FALL 2015
University of Alberta

EDUCATION

MSc. Computing Science, Big Data
SEPT 2017 – DEC 2018
Simon Fraser University, Burnaby Canada

- Teaching Assistant, Implications of a Computerized Society
FALL 2017

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

- UACS, VP Social Executive Member

TECHNICAL EXPERIENCE

Data Scientist MAY 2018 – AUG 2018

Capital Markets

Royal Bank of Canada , Toronto ON

- Resolved unmanageable access control by clustering permissions into business roles
- Used unsupervised learning techniques such as matrix factorization, clustering, and graph visualization
- Used Python, Pandas, Excel, Jupyter, D3, Javascript, and various open source libraries
- Worked with business users and team mates to develop an application solution
- Presented and demonstrated to bank executives regularly
- Presented final product at the RBC Amp Expo

Software Engineer

SEPT 2017 – JAN 2018

Fire Out , Burnaby BC

- Implemented and trained a computer vision model to detect the presence of fire in a video stream
- Used transfer learning with YOLO: Real Time Object Detection, built on the Darknet deep learning library
- Used Python to facilitate object localization between camera, raspberry pi, and arduino

Contract Developer

AUG 2016 – SEPT 2017

Four Winds and Associates , EDMONTON AB

- Developed full-stack Community Demographics web database
- Used Python and Django for back-end development, Javascript, Bootstrap, and Angular, for front-end

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

- Client facing support and communication
- Extensive experience with Linux systems and networks