

# Shawn Anderson

Yogi, Hacker, Data Shaman



587-501-3566

[shawn\\_anderson@sfu.ca](mailto:shawn_anderson@sfu.ca)

<https://shawnwanderson.github.io/>

<https://linkedin.com/in/shawnwanderson/>

<https://github.com/shawnwanderson>

## 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 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  
SEPT - DEC. 2017

### 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

## TECHNICAL EXPERIENCE

### Data Scientist

MAY 2018 – AUG 2018

*Capital Markets*

*Royal Bank of Canada , Toronto ON*

- Resolving unmanageable access control by clustering permissions into business roles
- Using unsupervised learning techniques such as matrix factorization, clustering, and graph visualization
- Using Python, Pandas, Excel, Jupyter, D3, Javascript, and various open source libraries
- Working with business users, and team mates to develop an application solution
- Regular presentations and demonstrations to bank executives
- Presenting final product at the RBC Amp Expo

### Software Engineer

SEPT 2017 – JAN 2018

*Fire Out , Burnaby BC*

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

### 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