# 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 |
| Unsupervised Learning | 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
*Univesity of Alberta*

**Instrument Recognition in African Music Field Recordings** — Fall 2015
*Univesity 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
*RBC Amplify*
*Royal Bank of Canada* , Toronto ON

- Four month internship program where 18 teams compete to build products and pitch at the August Amp Expo.
- Team: Business Access Management, 4 co-op students from 4 Canadian Universities, representing Capital Markets
- Used design thinking, agile, and lean startup methods to rapidly iterate on a data-driven solution
- Worked closely with Capital Markets IT to develop a disruptive internal product to redifine Access Managent
- Our team developed Bundle, a two part solution, consisting of a data science Engine, and a full-stack web-application
- Won Most Disruptive Internal Solution at Amp Expo 2018

**Software Engineer** — Sept 2017 – Jan 2018
*Fire Out* , Burnaby BC

- 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, rasberry 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 the back-end. Javascript, Bootstrap, and Angular, for the front-end

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

- Developed a web API back-end for online fines payment using Scala with the Play framework

**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 HTML, JavaScript and SQL

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

- Navigated Linux systems and networks