

Shawn Anderson

Yogi, Hacker, Data Shaman



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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 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

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