




Tim Cashion


Data Scientist

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EXPERIENCE

Senior Data Scientist

Lightspark Software Inc.

03/2021 - PRESENT

Vancouver, BC

- Automated our data ingestion, cluster modeling and report generation processes to reduce time per client by 90%.
- Developed the model evaluation framework used internally for testing and improvement.
- Built the data science backend API for our main consumer application using Flask framework, and deployed to AWS

Data Science Lead, Special Projects

Bio Conscious Technologies

06/2020 - 03/2021

Vancouver, BC

- Developed and deployed an ML model to Google Cloud to alert users to high-risk events.
- Analyzed and modeled user data to evaluate user health outcomes after using our diabetes management app.
- Built a custom dashboard with Dash to keep our sales team up to date on user sign-up and use across our platforms.

Master's of Data Science Teaching Assistant

University of British Columbia

09/2019 - 04/2020

Vancouver, BC

- Taught weekly tutorials in R and Python on regression modeling, feature engineering, model selection and experimental design.
- Received a TA Award from the MDS Program

Senior Research Assistant

University of British Columbia

10/2015 - 08/2017

Vancouver, BC

- Analyzed data in R for writing reports and scientific papers
- Updated Postgresql database with new data and data relationships

EDUCATION

PhD in Oceans and Fisheries

University of British Columbia

09/2017 - 04/2020

Vancouver, BC

- Built an econometric regression discontinuity model of ecolabeling programs to determine their causal impact.
- Rasterized and combined fisheries satellite data with threatened species ranges to inform spatial management
- Led 5 workshops teaching tidyverse R skills to 40 students

Master's of Environmental Studies

Dalhousie University

09/2013 - 06/2015

Halifax, NS

- Quantitative analysis on fisheries carbon footprints

SKILLS

- Python, SQL, R, Git
- Scikit-learn, pandas, Flask, tidyverse, plotly
- Causal inference, data wrangling, data visualization, data mining
- DevOps: AWS, GCP, Docker

PERSONAL PROJECTS

Vancouver's Data Science Market

- Web scraped data from LinkedIn on data science job postings in Vancouver to analyze current patterns and dominance of SQL. Visualized data with plotnine in Python. <http://tiny.cc/d187jz>

Economic Value of Pacific Herring in the Strait of Georgia

- Prepared for the NGO Pacific Wild and available here: <https://bit.ly/3bsPwbr>

CERTIFICATES & AWARDS

Fishackathon City Winner

02/2018

Vancouver, BC

- Led a team to win the Vancouver Fishackathon with an R Shiny app called GrowFish. GrowFish enables feed manufacturers to evaluate economic and environmental trade-offs for fish feeds.

Data Scientist in Python Stream

2016-2017

Online

- Online learning delivered by dataquest.io involving 30+ courses. I focused my learning on data cleaning, machine learning, and SQL.

SSHRC Doctoral Fellowship & UBC 4-Year Fellowship

09/2017 - 04/2020

Vancouver, BC

- Doctoral scholarship valued at \$80,000 over 4 years plus tuition.

INTERESTS

Running, Board Games, Brewing Beer