# JARED ARCILLA

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# **WORK EXPERIENCE**

#### Coinbase - Software Engineer

May - Aug 2021

- Used Go and Locust to implement virtual users that load tested the payments team's services to find bottlenecks
- Built a scaled down infrastructure with AWS that mirrored production environment for load testing
- Created Datadog dashboards to gain insights into how the environment reacts under a load

## Yelp - Software Engineer

Jan - Apr 2020

- Headed the end-to-end project to train business embeddings for recommender systems and machine learning models
- Engineered a pipeline to transform and load millions of user data into Word2Vec models using Python and PySpark
- Analyzed the quality of embeddings using dimension reduction techniques such as KMeans and TSNE

### Deloitte - Data Science Analyst

Jan - Apr 2019

- Prototyped an algorithm that recognizes misuse of company logo using OpenCV and PyTorch leading to a contract with a Deloitte client
- Trained logistic regression models to provide insight into the conditions that lead to a consumer purchase using SAS
- Defined best practices for the clients' data scientists using the SAS tools that had just been installed

## CIBC - Junior Analyst

Jan - Apr 2018

- Designed dashboard visualizations detailing user purchases using Tableau and SQL
- Automated a process of finding webpage ID's by building a webscraper using Python and Selenium, saving the company hundreds of labor hours

# **EDUCATION**

University of Waterloo BMath, Statistics 2016 - 2022

## RESEARCH

## Wilfrid Laurier University

- Implemented clustering algorithms such as PAM and KMeans to dissect patterns in financial stress with R
- Studied the effects of COVID-19 on the economic health of Canadians, for use in a press release by the Canadian Payroll Association

# **SKILLS**

- Languages: Python, R, Julia, Go, Ruby
- Tools: PySpark, PyTorch, Numpy, Pandas, AWS

### **PROJECTS**

- **MusicProcessing.jl** restored functionality to an open source Julia library that performs audio processing faster than Python alternatives
- **Dog Image Generator** implemented DCGAN algorithm using Python and PyTorch to generate realistic images of dogs
- **Pokemon Winner Predictor** utilized decision trees to predict the probability of winning based on Pokemon matchup