CHOENDEN KYIRONG

ckyirong@sfu.ca | github: kyirong6 | www.ckyi.me

EDUCATION

Simon Fraser University, B.Sc - Double Major in Computer Science & Statistics — expected grad. dec/2021 — burnaby, b.c

TECHNICAL SKILLS

/Languages	python, R, javascript, MATLAB, c++, sql
/Python Libraries	pytorch, tf, pandas, numpy, statsmodels, matplotlib, scikit-learn, scipy, seaborn, flask
/R Libraries	tidyverse, dplyr, ggplot2, stringr, DBI
/General Tech	node.js, express.js, google cloud platform, jupyter, google colab, ejs, mysql, mongodb

TECHNICAL WORK EXPERIENCE

Data Science Intern at BetterCart | ***Current (Winter 2021)*** | ***Remote***

CBSA | Data Science Coop | Summer 2020 | Ottawa, Ontario (remote)

- implemented a language identification tool using a n-gram char model in pytorch
- contributed to an adjusted SIRD model on covid-19 data in combination with MCMC methods in python

Illuminate | Java Workshop Instructor | May 2017 | UBC, Vancouver

- prepared material and instructed a class on Java and OOP concepts for ~60 highschool and university students

PROJECTS

Port Moody Church | Software Engineering | Fall 2020 | Academic

- developed a web application to manage events, users, admins, and meetings for the Port Moody Church
- implemented a REST API in express.js and integrated the zoom API for meetings and paypal API for donations
- tech used: node.js, express.js, ejs, html, css, zoom API, paypal API, mysql, google cloud platform (VM)

Music Generation | Machine Learning Project | Spring 2020 | Academic

- produced music using a LSTM and a Bi-Directional LSTM with Attention using midi files of classical based music
- preprocessed midi files using the music21 library mapped to one hot encoded vectors
- tech used: tensorflow, music21, keras, numpy, pandas

Toxic Comment Classification | Machine Learning Project | Fall 2019 | Academic | BC AI Student Showcase

- produced a multi-label classification accuracy of 90%
- utilized a bi-directional LSTM and GRU model with 200-d word embeddings to classifiy toxicity levels of texts
- preprocessed text by correcting mispellings and punctuation, replacing numbers, and tokenization + padding
- tech used: pytorch, keras, pandas, numpy, matplotlib, jupyter

Chip8 Emulator | Software Engineering | Spring 2019 | Academic

- developed a chip8 emulator in javascript and built 2 games to run on the emulator
- tech used: html, css, javascript, chip8, computer systems concepts, git, waterfall methodology

GENERAL WORK EXPERIENCE

Parliament Of Canada | Parliamentary Intern | Summer 2018 | Parliament Hill, Ottawa

- worked closely with a MP and developed briefings, questions, summaries, and research on international relations
- discussed and assisted with public affairs tasks such as providing material for a filibuster
- learned about day to day canadian governance and international diplomacy

MISCELLANEOUS

/Awards	2nd place technical solution at SFU Business Analytics Hackathon, 3rd place at Spotless Hackathon
/Volunteer	statistics mentor @ SFU statistics student association