

CHOENDEN KYIRONG

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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

TECHNICAL WORK EXPERIENCE

Incoming Data Science Intern at BetterCart | 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

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 classify toxicity levels of texts
- preprocessed text by correcting misspellings 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

Jazz Artist Of The Day | Amazon Alexa Skill | Mar 2018 | Personal

- created an amazon alexa skill that recommends jazz artists based on an era from users request
- 20+ users currently using the skill
- tech used: python, AWS lambda, alexa platform, JSON, REST

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