

Ngawang (Choenden) Kyirong

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<https://ckyi.me>

Interests

Practical applications of ML, AI audio/music, MLOps, Software Development

Education

Simon Fraser University

Burnaby, British Columbia

B.Sc in Computer Science

Jan 2018 – Present

B.Sc in Statistics

Jan 2018 – Present

University of Toronto

Toronto, Ontario

Jazz Performance

Sept 2014 – April 2016

Selected Coursework

- Computer Science: Machine Learning, Natural Language Processing, Data Science, Software Development Methods, Data Structures
- Statistics: Statistical Learning & Prediction, Learning from Big Data, Mathematical Statistics, Bayesian Statistics, Linear Models

Technical Skills

Programming Languages

Python, JavaScript, R, SQL

Python Libraries

PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, Scikit-learn, Spacy, Flask

Software Development

Node.js, Express.js, Mongoose, Docker, CI/CD, Gitlab, MVC

Employment

WorkSafeBC, Innovation Team

Richmond, British Columbia

Machine Learning Engineer Intern

Incoming Summer 2021

BetterCart, Development Team

Saskatoon, Saskatchewan

Data Scientist & Software Development Intern

Jan 2021 - Present

Created a test suite that identifies mislabelled data. Helped automate training data generation for a NER pipeline using Spacy.

CBSA, Data Analytics Division

Ottawa, Ontario

Data Scientist Intern

Summer 2020

Implemented a language identification tool using a n-gram char model in pytorch. Contributed to an adjusted SIRD model to analyze and predict how COVID-19 spreads.

	Parliament of Canada, House of Commons Ottawa, Ontario <i>Parliamentary Intern</i> Summer 2018 Created briefings, research topics, meeting summaries, and assisted with public affairs tasks such as providing material to filibuster for a Member of Parliament.
Projects	Hope Health Action, Software Development Spring 2021 <i>Node.js, Express.js, Docker, Mongoose, Gitlab, CI/CD</i> Automated development process by constructing a continuous integration & continuous deployment pipeline. Led back-end engineering for MVC design, data modelling, and built a variety of endpoints and services.
	Port Moody Church, Software Development Fall 2020 <i>Node.js, Express.js, HTML, CSS, MySQL, Google Cloud Platform, Zoom API</i> Enabled users to create and attend meetings using the Zoom API. Implemented a donation service using the PayPal API.
	Music Generation, Machine Learning Spring 2020 <i>Deep Learning, TensorFlow, Keras, NumPy, Pandas, Music21</i> Generated music using a LSTM and a Bi-Directional LSTM with Attention using midi files of classical based piano music.
	Toxic Comment Classification, Machine Learning Fall 2019 <i>Deep Learning, PyTorch, Keras, Pandas, Numpy, Matplotlib, Jupyter</i> Achieved 90% accuracy for multi-label classification of toxicity level of tweets. Used a 200-D GloVe embedding produced as input into a LSTM model.
Teaching/Talks	Statistics Mentor Fall 2020 Mentored undergraduate statistics students at SFU.
	BC Student AI Showcase Dec 2019 Presented project on Toxic Comment Classification using Deep Learning
	Java Workshop May 2018 Instructed a class on Java and OOP concepts for 60 high school students.
Awards/Scholarships	2nd Place Technical Solution (SFU Business Analytics Hackathon) 2020 3rd Place Overall (Spotless Hackathon) 2017 Moe Koffman Memorial Jazz Scholarship (University of Toronto) 2014 Entrance Scholarship (University of Toronto) 2014
Other Interests	Music composition, Piano, Trombone, Basketball, Soccer, Chess