Jessie Wong

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PROFILE

- A highly analytical, passionate, and self-motivated Data Scientist driven by problem-solving and strong interpersonal and collaborative values.
- Refined ability to clearly communicate complex and technical information to various audiences.
- Solid academic background with experience performing in cross-functional, multidisciplinary project teams
- Committed to life-long learning and achieving professional excellence through continual dedication and success

EDUCATION

Master of Data Science   **Anticipated Graduation: June 2022**
University of British Columbia | GPA: 98.3%
- Relevant courses: Statistical Inference and Computation including A/B Testing, Frequentist and Bayesian Statistical Frameworks, Advanced Machine Learning, Data Wrangling and Visualization

Bachelor of Applied Science- Mechanical Engineering   **Graduated May 2020**
University of British Columbia
- Exchange student at the University of Hong Kong from Jan to May 2019

TECHNICAL PROJECTS

BC Chronic Disease Visualization and Trend Analysis   **April - June 2022**
- Capstone project in partnership with Population Health Surveillance and Epidemiology, Office of the Provincial Health Officer, Province of British Columbia.
- Remotely collaborated with three other students to create the Chronic Disease Registry, a product that captures healthcare utilization patterns for a select number of chronic conditions.
- Performed data cleaning and wrangling in addition to feature engineering and selection on a large dataset derived from multiple sources.
- Delivered an interactive data visualization tool using R Shiny and developed spatiotemporal analysis tools to interpret trends in the data.

Olympic Athletes Dashboard   **February - March 2022**
- Created a dashboard with a team of four students using Plotly Dash in Python and R for interactive data visualization, exploration, and communication of Olympics athletes' information.
- Developed an interactive map showing distribution of athlete characteristics such as age and height, with filters for country, sport, medal, and year.
- Learned HTML and CSS components for customization and used Heroku to deploy interactive dashboards publicly.

Regression-based Prediction of Song Popularity   **November - December 2021**
- Constructed a data analysis pipeline using R, Python and Unix shell to run multiple scripts.
- Carried out hyperparameter optimization of a Ridge model to predict the popularity score of a song given various features such as song duration, genre, title, and tempo.
- Automated data science workflows using Make, and managed project software and environment dependencies using Docker.

TECHNICAL SKILLS

Github: Git (Pull Requests, Branching, Issues), Collaborative Software Development
Machine Learning: Classification, Clustering, Regression, Neural Networks, Feature Selection, NLP
Python: ScikitLearn, Numpy, Pandas, Matplotlib, Altair Geopandas, PyTorch

R: Data Wrangling, Statistical Modeling, Data Visualization Techniques, Quantitative Analysis, R Shiny
SQL: Database Design, MongoDB
Cloud Computing/Big Data: AWS, Hadoop, Spark
Other: MATLAB, Docker, Excel, MS Office, AutoCAD

PROFESSIONAL EXPERIENCE

Wood Canada Ltd.   **July 2020 – August 2021**
Mechanical Engineer-in-Training
- Used complex Excel functions to effectively create metadata of project documents and equipment for several ongoing and completed mining projects
- Compiled mechanical equipment data from numerous legacy projects to be used as a tool for decision making in future projects based on costs and technical specifications
- Managed several mechanical packages on a multimillion-dollar gold mining project and facilitated meetings between the project client and vendors to achieve smooth design and delivery of contract requirements

Acciona Infrastructure Canada   **June - August 2019**
QHSE Co-op Student
- Assisted in the planning and execution of workplace inspections and audits for compliance with occupational health and safety, quality, and environmental legislation
- Worked in a multi-disciplinary team to develop a safety management system for the Corporate Canada team
- Learned and used WorkSafeBC regulations to prepare investigative briefs for the prosecution of infractions of occupational safety and environmental legislation

University of British Columbia (Vancouver, BC)   **September 2017 – April 2020**
Undergraduate Teaching Assistant (TA) – Dept. of Computer Science and Dept. of Mathematics
- Graded student assignments and exams efficiently, consistently, and accurately to meet given deadlines
- Completed administrative and organizational tasks for course instructors, and invigilated exams
- Facilitated tutorial sessions with a course instructor, and aided students in their learning by using constructive teaching strategies to help them succeed in their studies

St. Paul's Hospital - BC Foot & Ankle Clinic – Dept. of Orthopaedics   **May - December 2018**
Clinical Research Assistant
- Compiled and analyzed data within Excel and related software to develop and produce detailed statistical reports
- Worked independently and in a team with other research assistants, surgeons, volunteers, and hospital staff
- Created detailed SOP's and other training documents to enhance future employee training
- Conducted relevant literature reviews of existing and emerging surgical techniques and technologies

VOLUNTEER EXPERIENCE

Wood – United Way Fundraising Campaign   **October- November 2020**
Event Coordinator
- Worked closely with a small team of volunteers to successfully plan, coordinate, and facilitate several fundraising events hosted over the course of two weeks
- Demonstrated creative thinking and problem solving to overcome the unique challenges posed by pandemic restrictions to deliver a successful virtual event

UBC- Imagine Day   **September 2019**
Welcome Team Leader
- Facilitated the successful delivery of Imagine UBC by maintaining effective communication throughout the planning process and event day
- Developed competencies in problem solving, social and community organization, and leadership

UBC- Vancouver Summer Program   **June - July 2018**
Cultural Ambassador
- Supervised and hosted various cultural actives and events for international students
- Interacted with international students and acted as a resourceful local connection and cultural link to enhance their overall experience and connection to Vancouver

ACTIVITIES AND INTERESTS

- Languages - fluent in English and Cantonese, self-learning Korean and Mandarin
- Music - piano and flute player, competent in reading and writing music
- Sports - badminton and cross-country runner, avid snowboarder
- Travel - travelled to numerous countries and cities throughout North America, Europe, and Asia
- Nature – enjoy camping, hiking, and backpacking