WANG CHENXI

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EDUCATION AND AWARDS

University of Toronto — Expected Aug 2020
Master of Engineering, Emphasis in Data Science and ELITE

University of British Columbia — 2015 - 2019
Bachelor of Applied Science B.ASc–Chemical and Biological Engineering

AWARDS:

UBC Structured Undergraduate Research Award	2018
Christian Burkert Foundation Research Award	2018
Second Prize in China Biology Olympiad Contest (CBO)	2015

SKILLS:
Programming**:** Python, R, MATLAB, SAS, JavaScript, HTML, SQL, C, Simplicity, Arduino

INTERNSHIP & RESEARCH EXPERIENCE

Deloitte Canada, Toronto, ON
Student Data Consultant — **Sept 2019–Jan 2020**

- Project Title: Analysis of growth in exponential technologies and their impact on talent portfolio of management consulting firms
- Web-scrapped 10, 000 + job information from the LinkedIn and Indeed.ca using Python
- Conducted exploratory data analysis (data cleaning, visualization) and developed logistic regression/random forest/bagging/boosting algorithm to generate talent portfolio in Python
- Presented project progress to Deloitte Toronto office on a weekly basis in the format of presentations, Q&As, and formal report

Price Wales Hospital, The Chinese University of Hong Kong, Hong Kong, China
Research Data Analyst — **June 2019–Aug 2019**

- Project Title: Predicted mortality rate in Acute Upper Gastrointestinal Bleeding (AUGIB) patients by transferring knowledge learned from Critical Care Database (MIMIC 2) at CUHK Prince Wales Hospital
- Developed a data acquisition protocol on the standard process of health data collection from hospital Electronic Patient Record (EPR)
- Developed machine learning algorithms (decision tree/naïve bayes/random forest /boosting) to predict mortality rate of ICU AUGIB patients then fine-tuned the model parameters and compared performance based on confusion matrix
- Optimized threshold selection method for mortality prediction deep learning model using Python which increased the reliability of threshold selection by 50%

Institute for Computational Design and Construction (ICD), Stuttgart, Germany
Research Assistant — **June 2018–September 2018**

- Collaborated closely with masters, PhDs, and professors from over 13 different countries and different educational disciplines on Research Pavilion 2018/2019: Adaptive Plates
- Developed an algorithm "Arduino Sorting System" using Arduino and C, which is capable of interacting with industrial robot KUKA and sorting different size of objects
- Simulated the material deformation and structure actuation system using Rhino and Grasshopper
- Presented the research results at UBC, earning UBC structured undergraduate research award

Peltast Partners, Chicago, USA — **April 2018 – June 2018**
Business Analytics Intern

- Extracted data from real estate website and cleaned text data with regular expression in Python
- Visualized Philippine house price distribution data using ArcGIS and created geometric graph
- Analyzed relationship between insured company and uninsured population by different US states, created tableau dashboard and presented the result to the clients

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TECHNICAL PROJECTS

Track on Ethereum: Supply Chain Tracking System with Blockchain Technology

- Developed a smart contract-based supply chain tracking system using Simplicity for suppliers, manufacturers, and customers, which earned A+ for the final grade
- Designed and built a website interface that can communicate with the MetaMask using JavaScript and HTML
- This system consists of three web interfaces: supplier interface, manufacturer interface, and customer interface. Supplier interface allows suppliers to upload supplied goods information onto the blockchain, producer interface is designed for the manufacturer to assign supplied components to each product, and the customer system allows customers to trace a full history of a product including its suppliers, manufacturers, components given the product ID.

Data Science Course Projects

- Performed a sentiment analysis on 2019 Canadian election tweets extracted from Twitter Post to classify users' potential political parties based on their daily tweets
- Optimized the model by comparing the accuracies from multiple classification algorithms (logistic regression, k-NN, Naive Bayes, SVM, decision trees, ensembles (Random Forest, XGBoost))
- Applied collaborative filtering and "ALS-recommendation-algorithm" to build a movie recommendation system that can provide users with personized movie recommendations that match the user's historical preference