

# Junn Hei Jonathan Cho

MANAGEMENT ENGINEERING CANDIDATE

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## Summary of Qualifications

- Adept Python Programmer with hands-on experience in data manipulation, visualization, Machine Learning and Deep Learning libraries strengthened by Data projects and work experience.
- Proficient Java Programmer with hands-on experience in full-stack development in an agile environment.
- Hands-on-experience in data-basing languages like SQL and SAP HANA to extract useful insights.
- Developed applications from scratch with Node.js, MongoDB and REST APIs.

## Relevant Experience

Developer, Data Analytics | The Home Depot

Jan 2018 - Apr 2018

- Created a system using Deep Learning libraries and Tableau to extract textual information in order to visualize trends in help desk tickets to reduce business reaction time to internal problems.
- Enhanced Java program that uses performs SQL queries to schedule daily generation of 15 reports on Google BigQuery.
- Gained an understanding of data warehousing by performing data validating data against SAP HANA database
- Utilized command line functions and Google Cloud API in Python to automate daily fetching of table meta-data on Google BigQuery in support of maintenance jobs within the team.

Research Assistant | University of Waterloo

Aug 2017 - Dec 2017

- Hand on experience with various Neural Network architectures such as LSTM, RNN, CNN, GAN and various Auto-encoders by testing models in libraries such as Tensorflow, Keras and Gensim.

## Projects

Titanic Kaggle Data Project

- Utilized libraries like Pandas, scikit-learn and Seaborn to perform data engineering, visualization and analysis.
- Scored 80% on the Titanic Kaggle Data Competition, placing in the top 10% in the competition.

Basketball Data Project

- Collected data from using webscraping tools and performed data cleaning and mining using Pandas.
- Utilized statistical and graphical methods such as Chi-Squared Testing and Probability Density Functions to analyze correlations between key metrics of NBA players with all defensive team nominations.

Nutritional Label Web-App

- Utilized Python's OpenCV and PyTesseract libraries for text and image recognition and processing on nutritional labels.

VHRED ChatBot

- Built and designed a chatbot based on a neural network architecture from an academic paper using tensorflow.

### EDUCATION

University of Waterloo  
Management Engineering  
Expected Apr 2021

Cumulative Average: 84.45

### AWARDS/CERTIFICATES

- Advanced Google Analytics  
2017
- President's Research Award  
2017

### INTERESTS

- Data Science
- Machine Learning/Deep Learning
- All things Basketball