Junn Hei Jonathan Cho

University of Waterloo | Management Engineering

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Summary of Qualifications

- · Implemented accurate Machine Learning applications using Python in projects done independently, as a Research Assistant and at Home Depot
- · Competency with Data Science and Statistical principles acquired through extensive dataset analyses and trend recognition within personal projects

Languages: Python, Java, SQL, Javascript, HTML, CSS, Bash, Microsoft Office Suite, Matlab

Tools: Google Cloud Platform, SAP BW & HANA, Tableau, Git, Jira, MongoDB

Relevant Experience

Developer, Data Analytics | The Home Depot Canada

Jan 2018 - Apr 2018

- Developed an interactive dashboard that predicts problems with 90% accuracy by employing Machine Learning principles in Python
- Created SQL queries and contributed logic to Java backend to support sales analysis and order journey efficiency streamlining
- Rectified \$500,000 of sales discrepancies by correcting SQL queries for 15 reports by validating against an SAP BW database and participating in Scrum meetings

Research Assistant | University of Waterloo

Sept 2017 - Present

- Applying cutting-edge Machine Learning techniques (Adversarial Learning, Multi-Task Learning)
 in TensorFlow for product suggestion system with \$60,000 of funding from Amazon
- Analyzed and tested advanced models from Natural Language Processing literature like RNNs,
 Encoder-Decoder architectures, Variational techniques and Word Vectors

Select Projects

Help Desk Ticket Analysis Dashboard | *Python, Tableau*

The Home Depot Canada

- · Cleaned large amounts of unstructured linguistic data using NLTK and Pandas
- · Explored semantic data in tickets using DBSCAN and Word Vectors from SciKit-Learn and Gensim
- Devised a model using LSTMs and a feed-forward architecture in Keras that classifies help desk tickets based on semantic content with 90% accuracy
- · Created interactive visualizations of geographic and time variables in Tableau

Chat-Bot | *Python* | Link

- · Implemented Variational Recurrent Encoder-Decoder model from literature with Keras
- · Cleaned Cornell Movie-Dialog Corpus into sequences of Word Vectors using Pandas and Gensim
- · Train and evaluated the model's ability to generate human-like responses

Basketball Data Exploration Project | *Python* | Link

- · Mined Basketball Data using Pandas collected from various websites using Beautiful Soup
- · Explored data using Matplotlib and Seaborn with Box plots and Multivariate Distributions
- Performed statistical analyses like Chi-Squared Testing and confidence intervals to find correlations between NBA players' defensive statistics and perception of defensive skill