**HUNG DO** 

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## **SKILLS**

Data Science: Statistical Analysis, Machine Learning, Graph Analysis, Deep Learning, Scikit-learn, TensorFlow, PyTorch

Data Analysis & Visualization: Python (Pandas, Matplotlib), SQL, R, Looker Studio, Jupyter

Data Engineering: PySpark, Airflow, GCP (BigQuery, GCS, DataProc, BigTable), Git

#### **EXPERIENCE**

#### Research Assistant @ Simon Fraser University - BC, Canada

September 2024 - Present

- Investigating privacy-preserving techniques for network embeddings to allow data owners to publicly share user embeddings (e.g., for Data Science competitions) without compromising sensitive user information
- Implemented an edge-privacy-preserving method using Pytorch

# Teaching Assistant @ Simon Fraser University - BC, Canada

September 2024 - Present

- Mentoring students from various backgrounds to understand statistics and analyze data in R

Machine Learning Engineer @ Momo - Top 1 fintech company in Vietnam - Vietnam

August 2021 - June 2023

- Reduced the fraud rate by 50% by tripling the performance of the account takeover detection model
- Collaborated with business teams to define metrics, run A/B tests, and perform analytics on 30 million users
- Developed 5+ advanced Looker Studio dashboards for monitoring OKR metrics and detecting model shifts
- Built robust data pipelines processing over 1TB of data daily with SQL, PySpark and optimized querying cost by 80%
- Scraped phone specs data and inferred missing prices to support clustering users based on price sensitivity

# Undergraduate Research Assistant @ University of Toledo - OH, USA

October 2020 - Dec 2021

- Analyzed network structures of interstate disputes and presented the results at Complex Networks 2021
- Developed DyNetworkX, an open-source Python package that handles dynamic network data, and co-hosted a tutorial session for it at SBP-BRiMS 2021

#### Dev-Ops Intern @ Crown Equipment Corporation - OH, USA

January 2020 - August 2020

- Improved productivity of the development team by maintaining CI/CD pipelines and managing AWS resources.

#### **EDUCATION**

## Simon Fraser University - Canada

September 2024 - Present

Master of Science in Statistics (GPA: 4.04/4.33)

Topics covered: Generalized Linear Models, Experimental Design, Statistical Computing, Statistical Theory

#### **University of Toledo - United States**

August 2018 - December 2021

Bachelor of Science in Data Science with Honors, Economics Minor (GPA: 3.98/4.00)

Awards: Summa Cum Laude, President's List, International Student Scholarship

Publication: Do, H. N., & Xu, K. S. (2022). Analyzing escalations in militarized interstate disputes using motifs in temporal networks. Complex Networks and Their Applications X, 527–538

### PERSONAL PROJECTS

#### **Credit Card Default Prediction**

October 2020 - December 2020

- Led and mentored 5 other Data Science club members to work on the project
- Achieved the final model with an f05 score of 0.8 by using Logistic Regression, handling unbalanced datasets with SMOTE, and securing a monotonicity relationship between predictors and target with WOE transformations