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#### **EDUCATION**

**Georgetown University** 

Master of Science in Data Science and Analytics. cGPA: 4.0

**The Australian National University** 

Master of Science in Statistics

University of Toronto

Honors Bachelor of Science with Distinction (Maths, Statistics and Computer Science)

Washington DC, United States Aug. 2021 - May 2023 (Est.) Canberra, Australia Feb. 2017 - Dec. 2018 Toronto, Canada Sept. 2011 - June 2016

## SKILLS

· Programming: SQL, Python, R, JavaScript, HTML, CSS, Java

Machine Learning: tidyverse, tidymodels, caret, jupyter-notebook, scikit-learn, numpy, pandas

· Visualization: ggplot2, R Shiny, leaflet, d3.js, matplotlib, seaborn, bokeh, plotly

- Data Science: A/B testing, ETL, pipeline (cleansing, wrangling, visualization, modeling, interpretation), scraping, feature engineering, NLP, cluster analysis, time series analysis, PCA, stochastic process, experimental design, hypothesis testing
- Big Data & Miscellaneous Technologies: AWS (EC2, EMR, S3, SageMaker), Azure, databricks, Spark, Hadoop, MongoDB, Docker, Linux, Shell, Hugo, Figma

# EXPERIENCE

# · International Finance Corporation

Washington, D.C.

Data Scientist Intern

May 2022 - Present

- Build metrics (fairness, explainability, adversarial robustness score, etc.) to measure the performance of MALENA (Machine Learning ESG Analyst)
- Train and fine-tune transformer-based MALENA Natural Language Processing & Natural Language Understanding models (RoBERTa and DistilBERT) to improve model robustness and stability
- Work with CEG and IFC stakeholders to understand requirements and design innovative dashboards for machine learning inference data visualization
- o Clean up and schedule batch jobs in Databricks cluster to provide periodic summary statistics to dashboard

# · Georgetown University

Washington, D.C.

Teaching Assistant / Bootcamp Manager

Aug. 2021 - Aug. 2022

- Worked as a graduate teaching assistant for ANLY-503 (Advanced Data Visualization) and ANLY-560 (Time Series)
- o Delivered weekly office hours and assignment grading for a group of 30+ students
- o Assisted in sharing course-related materials, managing course Slack channel and GitHub organization

K2L Canberra

Canberra, Australia

Product Data Analyst July 2019 - June 2021

- Utilized Python and SQL to track and analyze product data, resulting in a 15% increase in recommendation accuracy
- Built data visualization with MySQL and R for product KPIs that reduced manual reporting time by 3 hours per week
- Improved UX measures by 20% through increased user feedback collection and frequent iteration to customer needs
- Collaborated with the engineering team to launch an internal kanban tool for a better work-from-home experience
- Launched 6 products (websites, mobile apps, and web apps) for clients in 2 years for a total 65% revenue gain

· K2L

users in 3 months

Canberra, Australia

Feb. 2019 - June 2019

- Co-founder/Data Analyst Led a team of 12 to develop an online Q&A community combining the idea of StackOverflow and TikTok which grew to 1,000
  - Performed market competition analysis based on scraped data to direct the initial product planning
  - o Analyzed and strategized regarding business goals, schedules, and budgeting in the early stage of the development
  - Created functional prototypes that increased communication efficiency by 30% for clients

### **PROJECTS**

- What Ingredients Are You Tasting In Authentic Japanese Flavors?: A comprehensive interactive visualization project on Japanese cuisine with D3, plotly and leaflet; Website
- · Basketball Analytics and Beyond: Analysis of 188,946 Shots: A project on various basketball related topics, both on-court and off-court; Website
- · No Pie Newsletter: A newsletter curating the latest articles, packages, tools and podcasts about data visualization; Archive, Telegram
- xG Visualization Pipeline (R, sports analytics, visualization): An automation script to parse and clean raw data from soccer games and visualize the details in 3 different aspects; Tweet, archive, repository
- tarantino (R package development): An R package that generates color palettes inspired by Quentin Tarantino's movies for visualization; Featured in R-Weekly newsletter; Repository
- @canberramapbot (R, API): A Twitter bot posts bird's-eye view over Canberra periodically; Repository, Twitter
- sentRy (R Server, AWS, API): A DevOps monitoring tool that automatically sends Django error logs to subscribers' Telegram account; Reduced the total amount of notifications by 40% via aggregation and trimming redundant information; Blog, repository