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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.

Mav 2022 - Present

Data Scientist Intern

- Develop metrics (such as fairness, explainability, and adversarial robustness score) to evaluate the performance of MALENA (Machine Learning ESG Analyst)
- Train and fine-tune transformer-based NLP and NLU models (including RoBERTa and DistilBERT) to enhance the robustness and stability of MALENA
- Collaborate with CEG and IFC stakeholders to understand their requirements and designed innovative dashboards for machine learning inference data visualization
- Improve efficiency by cleaning up and scheduling batch jobs in the Databricks cluster, which provided periodic summary statistics for the dashboard

#### Georgetown University

Washington, D.C.

Teaching Assistant / Bootcamp Manager

Aug. 2021 - Aug. 2022

- Served as a graduate teaching assistant for ANLY-503 (Advanced Data Visualization) and ANLY-560 (Time Series), providing
  weekly office hours and grading assignments for a group of over 30 students
- o Facilitated course materials, managed the course Slack channel, and organized the course 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
- Created data visualizations with MySQL and R for product key performance indicators (KPIs), reducing manual reporting time by 3 hours per week
- Improved user experience (UX) measures by 20% through increased user feedback collection and frequent iteration based on customer needs
- o Worked with the engineering team to launch an internal kanban tool to improve the work-from-home experience
- Successfully launched 6 products (including websites, mobile apps, and web apps) for clients in 2 years, resulting in a 65% revenue increase

# K2L Co-founder/Data Analyst

Canberra, Australia

Feb. 2019 – June 2019

- Successfully led a team of 12 in developing an online Q&A community, which merged the concepts of StackOverflow and TikTok.
   The community grew to 1,000 users in just 3 months
- Conducted market competition analysis using scraped data to inform the initial product planning process
- Analyzed business goals, schedules, and budgeting during the early stages of development and created strategies to align with these objectives
- Developed functional prototypes that improved 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