Rui Qiu

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EDUCATION

- **Georgetown University** — Washington DC, United States
  Master of Science in Data Science Science — *Aug. 2021 – May. 2023 (Est.)*
  Teaching Assistant in ANLY-503 Advanced Data Visualization
- **The Australian National University** — Canberra, Australia
  Master of Science in Statistics — *Feb. 2017 – Dec. 2018*
- **University of Toronto** — Toronto, Canada
  Honors Bachelor of Science with Distinction (Maths, Statistics and Computer Science) — *Sept. 2011 – Jun. 2016*

SKILLS

- **Programming**: SQL, Python, R, JavaScript, HTML, CSS, Java
- **Machine Learning**: scikit-learn, numpy, pandas, caret, tidymodels, tidyverse   **Big Data**: AWS, Spark, MongoDB
- **Visualization**: ggplot2, R Shiny, leaflet, d3.js, matplotlib, seaborn, bokeh, plotly
- **Data Science & Miscellaneous Technologies**: A/B testing, ETL, data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), feature engineering, NLP, cluster analysis, time series analysis, PCA, stochastic process, experimental design, hypothesis testing, Docker, Linux Hugo, Figma

EXPERIENCE

- **K2L Canberra** — Canberra, Australia
  Product Data Analyst — *Jul. 2019 – Jun. 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** — Canberra, Australia
  Co-founder/Data Analyst — *Feb. 2019 – Jun. 2019*
  - Led a team of 12 to develop a online Q&A community combining the idea of StackOverflow and TikTok which grew to 1,000 users in 3 months
  - Performed market competition analysis based on scraped data to direct the initial product planning
  - 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
- **Zmate Network Technology** — Shenzhen, China
  Data Analyst Intern — *Aug. 2016 – Dec. 2016*
  - Cleaned 10TB of unstructured data of company registration information with SQL and Python, which reduced the storage space by 50% and increased the data accessibility
  - Utilized Python to implement supervised machine learning techniques to generate an evaluation metric of companies' intellectual property awareness, which highlighted 3% of potential customers for the marketing team
  - Implemented an automatic domain name generating system based on Chinese naming conventions, which also cross-checked with the existing data, leading to full automation in the routine of the marketing team

PROJECTS

- **No Pie Newsletter**: A newsletter curating latest articles, packages, tools and podcasts about data visualization; Website, Telegram
- **xG Visualization Pipeline (R, sports analytics, visualization)**: An automation script to parse and clean raw data from soccer games and visualize it in 3 different aspects; Blog, 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 redudant information; Blog, repository
- **aussie (R, Selenium, Python, crawler, data cleaning)**: A collection of Python and R web crawlers that scraped over 76,000 courses offered by 25 Australian universities in 2020; Cleansed and wrangled the data into a tidied structure for further analysis; Repository