

RUI QIU

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SKILLS

Programming Languages: R, Python, SQL, JavaScript, HTML, CSS, Java, Lua

Big Data & Machine Learning: AWS, Spark, MongoDB, Python (eg. scikit-learn, numpy, pandas, matplotlib), R (eg. tidyverse-related, Shiny)

Data Science & Miscellaneous Technologies: A/B testing, ETL, data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), cluster analysis, time series, principal component analysis, regression analysis, stochastic process, experimental design, hypothesis testing, Docker, Linux, Git, WordPress, Hugo, Jekyll, Figma

EDUCATION

Georgetown University

Master of Science in Data Science and Analytics (Expected to graduate in 2023)

Aug 2021 – May 2023 (Est)

Washington DC, United States

The Australian National University

Master of Science in Statistics

Feb 2017 – Dec 2018

Canberra, Australia

University of Toronto

Honors Bachelor of Science with Distinction (Mathematics and Statistics)

Sept 2011 – Jun 2016

Toronto, Canada

PROFESSIONAL EXPERIENCE

K2L Canberra

Product Data Analyst

Jul 2019 – Jun 2021

Canberra, Australia

- 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 in 2 years for a total 65% revenue gain.

K2L

Cofounder/Data Analyst

Feb 2019 – Jun 2019

Canberra, Australia

- Led the development of a new MOOC combining the idea of UGC to enable students to share their learning notes in short videos, 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

Data Analyst Intern

Aug 2016 – Dec 2016

Shenzhen, China

- 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 existing data, leading to full automation in the routine of the marketing team.

TEACHING AND PROJECTS

Teaching Assistant | *Advanced Data Visualization (Georgetown University)*

Aug 2021 – Present

- Collaborate with instructors and other TAs to hold office hours, grading, and communications.

xG Visualization Pipeline | *R, sports analytics, visualization* | [blog](#), [repository](#)

Apr 2021

- Parsed and cleaned raw data from soccer games and visualized it in 3 different aspects.

tarantino | *R package development* | [repository](#)

Jan 2021

- Developed an R package that generated color palettes inspired by Quentin Tarantino's movies for visualization.
- Featured in [R-Weekly](#) newsletter.

sentRy | *R Server, AWS, API* | [blog](#), [repository](#)

Feb 2020

- A DevOps monitoring bot that automatically sends Django error logs to subscribers' Telegram account.
- Reduced the total amount of notifications by 40% via aggregating redundant information.

AUSSIE | *R, Selenium, Python, crawler, data cleaning* | [repository](#)

Dec 2019

- Scraped over 76,000 courses offered by 25 top Australian universities in 2020.
- Cleansed and wrangled the data into a tidied structure for further analysis.