

Renacin Matadeen.

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Professional Experience.

Senior Business Insights Analyst

2022 – Present

TD Bank – C.R.D.S | Canadian Credit Card & Personal Lending (CCPL), Toronto ON

- / Following Regulatory Request for Information (RRFI), facilitated discussions with Senior Managers, Product Managers, Analysts, and other stakeholders to determine effective data acquisition strategies for a given issue in the Credit Card remediation space; documenting solutions on JIRA & Confluence.
- / Using, Python, SQL, SAS, Databricks, and GIT developed over 70 data projects (RRFIs); discovered numerous customers impacted by technical errors in the credit card space. Across all projects, identified ~ \$1,000,000 in customer credit card remediations.
- / Guided and mentored fellow colleagues, and interns on proper project development, providing expertise on primary / secondary code reviews, pair-programming, and guided learning sessions.

Senior Technologist

2019 – 2022

City of Toronto – City Planning Urban Design: Graphics & Visualization, Toronto ON

- / Facilitated discussions with City councillors, internal staff, and City litigators to better understand City Planning goals; helped problem-solve, and develop project outlines, graphics, presentations, and data summaries.
- / Strategically developed new geodatabases, web applications, data dashboards; to support modernisation plans, and help facilitate effective data solutions at the City of Toronto.
- / Developed, maintained Python ETL pipelines, and custom GIS tooling for fellow Technologists & Heritage Planners.
- / Refactored, optimized, & standardized codebase to reflect Graphics & Visualization aspirations of transparency and opensource development.

Education.

Masters of Spatial Analysis.

2017 – 2019

Ryerson University, Toronto ON

Courses in, not limited to...

- | | |
|------------------------------------|-----------------------------------|
| / Data & Geographic Visualizations | / Advanced Statistical Algorithms |
| / Advanced Programming Techniques | / Databases & ETL Technologies |

Bachelors in Geographic Analysis, Min. Environmental & Urban Sustainability Honours.

2013 – 2017

Ryerson University, Toronto ON

Courses in, not limited to...

- | | |
|--|---------------------------------------|
| / GIS & Remote Sensing | / Intermediate Statistical Methods |
| / Graphic Design & Cartographic Principles | / Intermediate Programming Techniques |

Summary of Qualifications.

- / Strong knowledge of Python, and data libraries; Pandas, NumPy, Matplotlib, Scikit-Learn.
- / Proficient with database manipulation in PostgreSQL, SQLite3, MS SQLServer, Hue, and associated dialects of SQL
- / Understanding of cloud computing tools, such as Azure Databricks, PySpark, and versioning systems; Git, GitHub.
- / Experience building dashboards using PowerBI, Tableau, and developing reports with PowerPoint, Excel, Illustrator, Visio.
- / Exceptionally detail oriented, self-motivated, with effective communication, time-management, and interpersonal skills.

Personal Projects.

Interpreting Traffic Patterns Through GTFS Data github.com/renacin/BramptonTransitAnalysis

2024 - Present

- / Using Python, Pandas, Object Oriented Programming, and external APIs, developed a real-time ETL pipeline that collected and analyzed Brampton Transit GTFS data, in order to query the spatio-temporal patterns of traffic in the City of Brampton.
- / Developed a system that collected GTFS data every 15 seconds, wrote to a dynamically cached database in SQLite3, and on a nightly schedule exported a ~20MB CSV to a storage container, emptying and defragmenting databases on termination.
- / Combining Matplotlib & Dropbox's API, created a system that would interpret traffics patterns for each route, automatically generate data visualizations, and upload them to a Dropbox folder on a nightly schedule.
- / Deployed code on a Raspberry Pi 3B (1.2GHz, 1GB RAM), and a 16GB external memory stick, to demonstrate the usability of low compute resources, and the importance of implementing effective programming techniques, and efficient code.
- / Using GIT, GitHub, and Visio – thoroughly explained code, research, and flowcharts to ensure readability to outside stakeholders.

Volunteer Experience.

Project Analyst / Data-Visualization Consultant Interval House, Toronto ON

2021 – 2022

- / Collaborated with stakeholders' part of the Building Economic Self-Sufficiency (*BESS*) program to lead the development of a statistical framework to better understand client data records collected from 2008 – 2021.
- / Using Python, Pandas, SciKit Learn, and Illustrator, performed socio-demographics analyses of groups using Interval House resources. Created 30 maps, and other graphics elaborating results found.
- / Cross-referenced COVID-19 case numbers and identified at risk clients that may require additional support.
- / Using Hierarchical Clustering and Principal Component Analysis, on Census Data & Donor data, located groups that could be targeted in future outreach projects. Elaborated results to non-technical stakeholders with PowerPoint presentations.
- / Created documentation, visualizations, and user manuals enabling the future use of research.

Research Papers.

An MCDA Toolkit Calculating Site Attractiveness Using the Huff Model Ryerson University, Toronto ON

2018

- / Researched, and developed reporting on missing frameworks that prevented the development of accurate retail site attractiveness indices in the open-source GIS community.
- / Queried benefits of Weighted Linear Combination (*WLC*), Multicriteria Decision Making Analysis (*MCDA*) and its fundamental compatibility with retail site attractiveness, and compared it to similar developments.
- / Using Python and Qt, developed a number of open-source GUI based QGIS tools that implemented findings, developed spatial visualizations, and addressed deficiencies in the opensource toolsets.
- / Through the use of a case study; tested 4 variants of a *WLC MCDA* in order to determine reliable attractiveness metrics from heterogeneous data.

Awards.

Dean's List Ryerson University, Toronto ON

2017

Dean's List Ryerson University, Toronto ON

2016