

FENGYAN(AMBER) LI

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EDUCATION

Master of Engineering in: Electrical and Computer Engineering Sep 2021 – Dec 2022
University of Waterloo

Honours Bachelor of Science with High Distinction in: Math & Statistics 2015 – 2019
University of Toronto - Cumulative GPA: 3.79/4.0

TECHNICAL STRENGTHS

Programming: Java, Python (*Pandas, Numpy, Matplotlib, TensorFlow, Django*), R (*Shiny*), VBA, SQL, Javascript (*jQuery, React.js, DataTables*), HTML5, CSS, PHP, MATLAB, Swift, bash script, ACL, C++
Tools & Technologies: Power BI, Tableau, Git/Github, Google Cloud Platform, Google Sites, MS Office

WORK EXPERIENCE

PwC Canada - Data Assurance July 2019 – August 2021
Associate (July 2019-July 2021) / Senior Associate (July 2021 - Aug 2021) Toronto, Canada

- Designed and developed both front (HTML, CSS, javascript) and back end (PHP, MySQL) of a web application deployed on Google Cloud Platform which is used by all Canadian audit teams as a project management tool. The application has more than **2000** active users and increases project management efficiency by **30%**.
- Performed full-cycle data analysis including data extraction from various ERP systems (SAP, Oracle, Quick-Books, etc.) and data transformation. Executed analysis and tests for abnormal transactions, revenue, and account payable liquidation per risk assessment framework using ACL, SQL, Alteryx, R, Power BI and Tableau.

BMO Financial Group May 2018 – April 2019
Operations Analyst Toronto, Canada

- Piloted a new process for monthly reconciliation using VBA to save 20 hours of manual labor per quarter.
- Performed quarterly and monthly ad hoc reporting duties by analyzing operational risk control efficiencies.

PROJECTS & RESEARCH

Radiology Agreement Statistics Website, in Django 2020

- Access link: <https://md.softxinnovations.ai/>
- Developed an educational website of agreement statistics using Django framework. The website uses an interactive quiz and flowchart to help radiologists decide the most appropriate statistical tests for their readings.

Shopping Mall Segmentation Analysis, in Shiny 2019

- Developed a Shiny web application connected with Google Map API to analyze and visualize the demographic shopping patterns and top brand preferences within user-specific regions in Canada.

University of Toronto - Department of Political Science September 2018 – April 2019
Natural Language Processing and Social Network Research Toronto, Canada

- Categorized text reports of social unrest events into different classes of severity and violence by putting weight on keywords and using k-nearest neighbors algorithm for classification.
- Leveraged PCA, network analysis, and multivariate regression methods to demonstrate statistically significant causal relationships among agents, strategies, and citizens' responses during social unrest events.

AWARDS AND RECOGNITIONS

ASA DataFest@UofT: Best Use of External Data Award 2019
The John David Stewart Scholarship 2017
The Katherine St. John Scholarship 2016