

VINCENT LIU

ETL, Data Cleansing, Data Quality, Data Modeling & Data Visualization

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Data Engineer with 2 years of experience in **data cleansing, analyzing and visualization**, Vincent has been heavily engaged in BI & AI processing of data using **Python, SQL and Power BI** for health & retail businesses. With true passion in technology, Vincent has been proven to be high performed and **accountable** team player in various projects.

CORE COMPETENCIES

- ✓ Health Care, Retail Insight
- ✓ Business Process
- ✓ Data Engineering
- ✓ Dashboard & Reporting
- ✓ Predictive Analysis
- ✓ Web Application Design
- ✓ ETL, QA, Automation
- ✓ Agile Methodology

TECHNICAL BACKGROUND

- **Design & Development:** Application UI, Data engineering process, Data Sampling, Model and automation design
- **Software:** Azure SQL Server, Jupyter Notebook, Access, Excel, Power BI, Tableau, Jira, ServiceNow, Autosys, draw.io
- **Programming:** Python, TSQL, R, VBA, Unix Script, Java, Matlab, Octave

CAREER PATH

Data Analyst | EDPYPF Services Inc.

Aug 2020 – Present

- Collected business requirement; designed and determined KPI, metric, workflow and timeline to deliver BRD
- Enhanced relationship data modeling design for Issue tracking & action taking system with major requirement change.
- Planned and implemented database migration and prepared test plan, test cases and test script for Quality Assurance
- Designed CRM dashboard using Power BI to support management decision making & ensure effective action taking
- Analyzed a retail bank's sales and customer data to identify strategic insights for opportunities of success in python
- Monthly Financial income statement report design, automation and publishing into SQL Server using VBA
- Budget and forecast calculation/preparation for Mining company's KPI report
- Summarized Access & Excel reporting flow for enterprise-level reporting automation

Data Engineer | Interactive Media Lab, University of Toronto

Apr 2020 – Nov 2020

- Provided data processing & Application UI design as Data Engineer in health care product which is currently used by Toronto Hospital doctors and researchers.
- Designed data cleansing infrastructure, solution and process, which targeted for both automation and self-exploration.
- Collaborated with team members to optimize over 200 files in the Framingham heart study dataset for the use of transfer learning, which provides self-manipulation features & further analysis support of data science research.
- Perform exploratory data analysis on given dataset by using matplotlib to visualize and provide insights for the condition of the data, resulting in 40% overall reduction in non-statistically significant data.
- Worked on transfer learning (using Sklearn) by construction of quantitative models and analyze the aspects of dementia, in hope of understanding the contributing factors to dementia in human cognition.
- Identified correlation between heart stroke and dementia, which is statically significant greater than other factors; Dig further via data experiments to reveal indirect features which contribute to Dementia and heart stroke.

Data Analyst for Bubble Express | Junior Achievement Canada

May 2016 – Aug 2016

- Gathered operational data from the line of business and collected requirement on marketing initiative
- Provided data modeling in access and created user data entry interface for operation department.
- Created operation report in excel using collected data for sales, marketing and competitor analysis
- Worked with front store team to understand the sale process and optimize the procedures to improve efficiency
- Setup and implemented the operational workflow from budgeting, purchasing, producing, quality control, inventory, sales to cost control & settlement

EDUCATION

Bachelor, Statistics & Cognitive Science

University of Toronto

Sep 2015 – Nov 2019

Double Major (GPA: 3.7/4), Minor in Computer Science

Awards and Achievements: Presidential Entrance Scholarship

2018-2019

OTHER ACTIVITIES

- **Certificate:** CFA I Completed & CFA II Candidate Nov 2019 – Jan 2020
- **Soft Strength:** Planning, Presentation, Public Speaking, Customer Service
- **Interest:** Investment Market; Badminton – team NB; Runner-up in the 2016 Kendo Championship Canada