

Zimeng Ming

Data Science Engineer & Software Engineer | Seeking a Full Time Data Scientist or related role



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LinkedIn: [Click here](#)



GitHub: [Click here](#)

- Process oriented data analyst with two-year work experience with data science and software engineer. Experienced in developing various products and analyzing data to drive growth for solutions and offering the following customer service.
- Experienced in ETL, Data lifecycles, Machine Learning, Big data workflow and Clouds.
- Experienced in various analysis reporting process especially financial reporting process and business modeling process.
- Experienced in building data visualization dashboard or plots though Tableau, Power BI with web development toolkits.
- Experienced in software application development, profession of java, python, JavaScript, Flutter, React and Firebase.
- Deep understanding and extensive experiences of leaderships and cooperation with other teammates. Strong ability to learn and preparedness to work hard. Fluent in English and Chinese with experiences in writing report and docs in English.



Education

2016-01

Bachelor of Science: Combined Statistic and Computer Science (Co-op)

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University of Victoria - Victoria, BC

2021-05

GPA 7.0/9.0 in Senior-year Courses,

Relative Course: Machine Learning, Systems for Massive Datasets, Intro to AI, Numerical Analysis



Work History

2021-01 -

Business Analyst and Software Engineer, Co-Founder

Current

Culina , Vancouver, BC

- Building a complete online meal order app for UBC and UVic student using Flutter and Firebase cloud. Taking in charge as full stack developer from front-end to back-end development.
- Developing data structures and firebase cloud functions. Interviewing potential users including business and customer for the app, collecting, and analyzing the data, leveraged business intuition to craft a business model for the app. Managing and distributing tasks to the team members.
- Integrating with APIs, testing and debugging the software, planning and documenting the business.

2020-01 –

Research Technician Intern (Data Specialist)

-- Research Section in Resource Management

2020-12

BC Ministry of Forest, Lands, Natural Resource Operations and Rural development, Nelson & Victoria, BC

- Developed the solution for the questions exposed on collecting, arranging and analysis the data from the West Arm Demonstration Forest (WADF) research project stations.
- Built algorithms for quality assurance (QA) and quality control (QC) process for the datasets in order to clean the unreliable data and filled the gap using machine learning and statistic strategies though Python, R and SQL(Access).
- Presented and wrote the user manual for the new QA/QC tools, also provided technical support for the research team.
- Link: For more details please [click here](#)

2019-05 –
2019-09

Data Science Intern

--Anti-Telecommunications fraud Team, Fintech Department

China Construction Bank Fintech Ltd, Wuhan, Hubei, China

- Researched and analyzed on fraud cases data from the daily banking transactions to catch the most common attributes for a suspect fraud transaction using Spark SQL and python toolkits.
- Built the knowledge graph for relationships between attributes and presented it on the demo dashboard using React and Ant design.
- Developed user operation manual for the fraud alert system, recorded the demands from business departments and provided technical support for fraud system the users.



Projects

1. [Predict Unemployment Rate of Canada](#)

- a) Tools: Python, Statistic models, sklearn, matplotlib
- b) Using the data from Statistic Canada about unemployment data and try to build the linear model for the unemployment rate of Canada.
- c) The project is starting from data collection then go through with whole life cycle phases of data analytics.
- d) The algorithm of features, K-mean cluster, linear regression, ridge, and training are used in the project.

2. [Analysis the Elections by using Tweeter](#)

- a) Tools: Python, Python modules, Nltk
- b) Using Tweepy module to get the data for the tweeters under the certain topics that related to the elections.
- c) Doing whole big data life cycle, cleaning the data through python toolkits such as pandas, re and analyzing the data via nltk and Scikit-Learn. Training the model and leveraged political intuition to craft a decision function to assign label regarding tweeters context (positive, natural, negative).
- d) Outcomes: Plots for analysis, WordCloud etc.

3. [Track COVID-19 Data](#)

- a) Tools: Python, Tableau
- b) Using python spider to catch the data online, then using the Tableau visualizing and analysis the data.
- c) My Other Tableau Vizs: [click here](#)



Skills

- **Programming Languages:** Java (>10,000 lines) , Python(>10,000 lines), Flutter/dart | **Data Languages:** R, SQL
- **Web Languages:** JavaScript, Node.js, React, HTML, CSS | **Big Data Toolkits:** Spark, numpy , Pandas
- **Data Science Toolkits:** WIND, SPSS, MATLAB. | **ML Toolkits:** Scikit-Learn, TensorFlow, nltk, pyTorch
- **Algorithms:** Decision Trees, rules, Classification (Naïve Bayes, multiclass, PRIME), Regressions(linear, nonlinear, logistic) , svm, Associations, Recommender Cluster, Search, Retrieval, Neural Networks.
- **Data Visualization tools:** matplotlib, Dash, D3.js, Vue.js, Tableau, Power BI, ggplot ,
- **Database and Clouds:** AWS, Google Clouds (Firebase), Mongo DB, MySQL, Apache Airflow, IBM Watson.
- **Develop Toolkits:** Maven, Spring Boot, git, TestFlight, Cocoa
- **Develop IDE:** VS Code, Android Studio, Eclipse, XCode, RStudio, Anaconda3 (Jupyter Lab and Notebook)



Reference

- **Natasha Neumann** PhD, PAg, Hydrologist BC Ministry of FLNR, Nelson, BC
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- **Yongbo Liu** MSc, Technical Lead, China Construction Bank, Wuhan, Hubei, China
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