

Ling Zhi Mo

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Technical / Computer Skills

Languages: C, C++, Python, Java, MC68000 Assembler, HTML/CSS/JavaScript

Environments: Windows, Linux, Amazon EC2(cloud), GitHub

Additional: Sockets Programming (TCP/IP), Web Development, Python Scikit-Learn, Pandas, Matplotlib packages, Python Spark, TensorFlow, OpenCL

Education

Master of Engineering, Computer Engineering in Communication, emphasis in Analytics **2021-Now**
University of Toronto, Toronto, ON

Bachelor of Engineering, Computers **2016-2021**

Concordia University, Montreal, QC

Cumulative Grade Point Average: 3.74/4.3

Relevant Courses:

- | | | |
|---------------------------|--|--|
| • Big Data Analytics | • Communication Networks and Protocols | • Advanced data structure and Algorithms |
| • Artificial Intelligence | • Data Analytics | • Programming on Cloud |

Career-Related Experience

Electrical System integrator intern August 2018 – December 2018
Bombardier Aerospace's interior system integrator, Montreal, Quebec, Canada

- Integrate, test and troubleshoot cabin systems such as the Cabin Management and Entertainment System.
- Support production and troubleshoot cabin system on aircraft.
- Provide visibility daily to supervisor on the progress of the testing and the issue encounter.
- Ensure coordination with other systems suppliers for an adequate integration.
- Accomplish AHMS automatic decoder project and launched a website displaying decoded information

Academic and Work Projects

AHMS automatic decoder project (Program in VBA, Python) 2018-2018

Bombardier Aerospace, Montreal, QC

- Automatically obtain aircraft data that are sent under **UDP**, decode this data to readable files, then generate a temperature trending graphs.
- Accomplished by using Batch script and **Wireshark** to intercept UDP data; used VBA to decodereadable files and output temperature trending graph.
- Used Python and module **SFTP** to login to a SFTP file server to extract history data.
- Used Python and **Python** module **Flask** to build an interactive website displaying websites.

Rental Website (Programming on Cloud)

2020-2020

- This project presents a solution for navigating and searching rental ads faster.
- Understand rental websites server mechanism to write **WebCrawler**
- Gather **10000 data points** from rental websites in under **10 minutes** with python concurrent request. Store data in **DynamoDB**.
- Displayed data on the **map**, each data point has a geographical location and its rental price on top of the point. Clicking the data point would redirect user to the actual ad.

WallStreetBets Big Data Analysis (Big Data Analytics)

2020-2020

- Used Pushshift API to get posts from subreddit WallStreetBets, collected over 30000 useful data.
- Filtered textual data with **Spark NLP** and StopWordsRemover.
- Visualized data with **PCA**, **TruncatedSVD** and **T-SNE** libraries from Scikit-learn, and with Python and **Matplotlib**.
- Built a Naïve-bayes classifier to classify **Reddit** posts discussing high growth stock.

Interests

Big Data, Data Analytics, Reinforcement Learning, Communication Networks, Multicore Programming, A.I.