

Ying Zhou

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Technical Experience

Software Development Intern

FEB 2021 - AUG 2021

Omind Consulting | Remote

- Retrieved and analyzed data sets using SPSS. Each set consists of over 250 assessment responses from customers, calculating individual scales.
- Automation of data analysis with SPSS syntax, then with Python and Javascript to integrate with the front-end.
- Data visualization with Python matplotlib, built interactive dashboard using bokeh.
- Assisting in building the mobile application for Android and iOS in Flutter.

Information Technology Intern

DEC 2020 - FEB 2021

China Southern Power Grid | Yunnan, China

- Utilized Python (numpy, pandas, pyechart, scikit-learn) to analyze and visualize over 150+ power cable and voltage data sets. Predicted further trend in power voltage usage with machine learning classification models.
- Involved in the building of a RPA bot using UiBot RPA, automated the processing of work orders 24/7, simplified the process of locating problems and appointments of front line workers.

Work Experience

Office Assistant

MAY 2021 - Present

McGill University ISS | Montreal, Quebec

- Handling over 80 inquiries per day via email, chat and phone and providing basic information on immigration procedures, health insurance, and services offered by ISS to McGill students.
- Coordinating and leading 15 orientation events and tours.

Digital Content Creator/Writer

SEPT 2020 - AUG 2021

Easy Group Inc | Quebec, Canada

- Created digital content/articles to be published. 250-850 views per article, helped increase the company's visibility to targeted customers.
- Analyzed viewer data, gathered customer feedback on various products.

Projects

Interactive Dashboard (AWS-EC2, Python bokeh) - Jan 2021

- Created a bokeh dashboard with dropdown menus visualizing open data from NY social services with over 25,000,000 entries.
- dashboard running on a specific HTTP port with authentication.

KNN vs Decision Trees - Machine Learning (Python - Jupyter Notebook)

- Investigation and analysis of the performance for two classification models: K-nearest neighbors and decision trees for two data sets.
- Used Python SciKit-Learn and Pandas to perform data cleaning, one-hot encoding, model fitting, feature scaling and maximized model accuracy with best hyperparameter. Test accuracy of 93% achieved.

Sudoku Solver (Java) - 2021

- Solves given Sudoku with no size limit and special grid containing regions that must have numbers from 1 to n where n are numbers of cells in the region. Top 5% of the class with optimization, recursive algorithm used.

Education

McGill University

Montreal, Quebec, Canada

SEPT 2020 - MAY 2024

Bsc Computer Science

Minor Statistics GPA: 4.0./4.0

Courses:

Data Science | Machine Learning

Software Design | Algorithm and Data Structures | Competitive Programming

Linear Algebra | Probability

Discrete Structures | Calculus | Statistics

Technical Skills

Programming Languages:

Java / Python / C / C++ / MIPS / Bash Scripting

Mobile Development:

Flutter (Android and iOS)

Cloud: Google Cloud, AWS

Database: SPSS / SQL / Oracle

Automization: PRA - UiBot

Microsoft Office

Windows / MacOS / Linux / Unix

Languages:

English: Native proficiency

Mandarin: Native proficiency

French: Basic proficiency

Extra-Curricular Activities

Digital Ambassador - Working Humans of McGill

SEPT 2020 - PRESENT

Promoting the WHOM initiative through social media and online platforms with digital content (900+ followers).

Certificate

The Complete SQL Bootcamp at Udemy - AUG 2021