Christopher Jiang

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EDUCATION

University of Waterloo   Sept. 2023 – May. 2028
Candidate for Bachelor of Mathematics, Statistics/Combinatorics & Optimization   *Waterloo, ON*

TECHNICAL SKILLS

Programming Languages: Python, SQL, Rest API, R, HTML/CSS, C, JavaScript, Java, Latex
Softwares and Tools: Jupyter Notebook, Microsoft Excel, Microsoft Power BI, Microsoft Azure, MySQL, VS Code, Tableau, RStudio, Matlab
Libraries: pandas, numpy, scikit-learn, selenium, BeautifulSoup, request, matplotlib, seaborn, folium

CERTIFICATIONS

IBM Professional Data Analyst Certificate, Microsoft AI-900 Certificate

WORK EXPERIENCE

Data analyst & Project lead   Sept 2024 - Dec 2024
Petite Homes LLC   *Windsor, ON*

- Led a **team of 4** in analyzing Ontario camping market, improved the speed of decision making process by **50%**.
- Utilized **selenium, pandas, and requests** for **web scraping**, successfully extracted **over 4,000 rows** of data from a dynamic website, and organized it into a **csv** file, improving efficiency for future processing by 40%.
- Developed and managed databases using **MySQL** and **SQLite**, utilizing **DML** commands to load data into tables and optimize the efficiency of handling large datasets by 60%.
- Conducted data wrangling by using **pandas** and **numpy**, cleaned a **large** dataset, increased wrangling efficiency by 40%.
- Visualized data by using **Microsoft Power Bi**, created an **interactive** business report, increased the efficiency of finding reporting process by 60%.
- Leveraged **scikit-learn's linear regression** to analyze the relationship between rating and price, achieving a prediction accuracy of **90%**.
- Received **Outstanding Rating** from employer.

PROJECTS

Toronto Airbnb Market Pricing Analysis | *Python, Microsoft Power Bi*   May 2024 - July 2024

- Analyzed **over 10,000** Toronto Airbnb listings using **Python**, identifying key pricing trends and improving public market insights by 30%.
- Designed and implemented real-time business reports by **Microsoft Power BI** to visualize price-influencing factors, enhancing user interpretation by 50%.
- Developed and validated a **linear regression model** with **scikit-learn**, achieving 85% accuracy in predicting future pricing and supporting strategic decision-making.

Personal Financial Management Website | *HTML, CSS, Javascript*   Apr 2024 – May 2024

- Developed a user-friendly webpage using **HTML, CSS, and JavaScript**, resulting in a 30% increase in user engagement.
- Utilized GitHub for **version control**, enhancing collaboration within a 3-member team and maintaining a **95% code quality**.
- Integrated over **5 dynamic features** like hyperlinks, custom backgrounds, and animated subtitles, enhancing visual appeal by 40%.

OTHER SKILLS

Transferrable skills: Leadership, Project management skills, Communication skills, Collaboration skills
Languages: Speaks English and Mandarin Chinese