

Alexis Ng

Tech research analyst with a focus on emerging technologies and innovation to shape our future

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Relevant Experience

Bank of Montreal

Technology Research Analyst Mar '22 - Present

Software Developer May '21 – Mar '22

- Conducted in-depth research and analysis of trending emerging technologies such as Gen AI, 5G, metaverse and blockchain through banking use-cases and proof-of-concepts
- Collaborated with cross-functional teams including data analysts and data scientists to execute several automation tasks, including the development of employee onboarding personas, customer product selection, and payment optimization
- Developed and maintained a comprehensive financial report dashboard tracking the performance of Canada's top five banks on a quarterly basis, providing comparative insights such as average assets, total revenue, net income, and efficiency ratio
- Designed and implemented a personalized news aggregator website that utilized machine learning and large language model to curate customized news feed – highlighting skills in building and maintaining ETL pipelines

Ministry of Transportation

Provincial Highways Management Engineering Associate May '19 – Aug '20

- Drafted electrical layouts, wiring diagrams, and completed lighting calculations of traffic and lighting systems on several provincial highways using AutoCAD
- Developed and strategized policy and standards development work related to highway lighting, traffic systems, accessible pedestrian signals and other transportation related electrical infrastructure
- Collaborated with engineers in the development of new innovative devices, installation, and maintenance of electrical systems

Selected Projects

alexiswhng.github.io

Personal website built using HTML, CSS, JavaScript, and Bootstrap 5

Emerging Tech News web app

News aggregator web app built using Python Flask, HTML, CSS, and OpenAI

Spotify Artist and Song Analyzer

Streamlit app that uses data visualization tools to analyze Spotify artists and their top songs. Created an alternative dashboard using PowerBI

Skills

Programming Languages

Python, SQL (Postgres, MySQL), HTML, CSS, JavaScript, MATLAB

Libraries & Frameworks

Pandas, NumPy, Matplotlib, Beautiful Soup, Seaborn, Scikit-learn, Tensorflow, Keras, NLTK, Flask, Streamlit

Tools & Platforms

Microsoft Suite (Word, Excel, PowerPoint, Visio, PowerBI), MySQL, AWS (S3, Lambda, Kendra, Quicksight, Athena), GitHub, AutoCAD

Hard Skills & Techniques

Data visualization, Data pipelines, APIs, Extract, Transform, Load (ETL)

Education

Bachelor of Engineering, Electrical Engineering (Co-op)

McMaster University
Hamilton, ON
Sept 2016 – Apr 2021

Certificates

AWS Certified Cloud Practitioner

Issued by Amazon Web Services

Interests

Running (training for the half-marathon), fitness, travelling, reading, karaokeing