

# Earl Chow

42 Waterbridge Lane, Markham, ON, L3R 8V9, Canada

☎ (+1) 647-563-4492 | ✉ earlchow2000@gmail.com | ✉ e23chow@uwaterloo.ca | 📍 4B Geomatics

## Summary

Current 4B Geomatics student with over 1 year of experience working with GIS, Python, Excel VBA, data visualization, and data analysis. Proven proficiency in ArcGIS, Python, ArcPy, Excel, PowerBI, VBA, SQL, and general technical knowledge.

## Work Experience

### Region of Peel, Health Intelligence & Analytics

Mississauga, ON

COORDINATOR, HEALTH ANALYTICS

May. 2022 - Present

- Lead division-wide training sessions on ArcGIS Online usage and basic web map creation
- Onboarded new co-op students on ArcGIS, current projects, and department data standards

ANALYST, DATA & GIS

Jan. 2022 - Apr. 2022

- Worked with senior team members to develop, and implement a standardized GIS metadata format
- Collaborated with GIS teams to design multiple map templates in ArcMap
- Automated spatial analysis processes using a combination of Python, ArcPy, and Excel
- Produced multiple PowerBI dashboards and data visualizations from a variety of data sources
- Identified ideal COVID vaccination locations using a variety of existing data and spatial analysis techniques

ANALYST, DATA & GIS

May 2021 - Aug. 2021

- Created and maintained an ArcGIS Online web map of COVID planning data
- Automated feature layer calculations and update processes using Python and ArcPy, reducing update times by over 90%
- Developed reconciliation tools used to validate COVID vaccination data by vaccination clinics using Excel and VBA
- Performed statistical analysis on vaccination clinic efficiency rates using Python and Excel

### Metrolinx

North York, ON

BUS OPERATIONS PLANNER

Jan. 2020 - Apr. 2020

- Developed bus scheduling applications using Python to schedule internal bus movements, reducing planning time by over 80%
- Worked with senior team members to finalize and implement planned Bus schedules into testing databases
- Produced accurate daily cost estimates of toll road usage from bus routes in ArcMap using spatial analysis techniques
- Developed Excel templates to calculate bus route costs using pivot tables and VBA

## Projects

### GTA Hospital Suitability Analysis

[HTTPS://CHOWE123.GITHUB.IO/EARLCHOW/HOSPITAL\\_ANALYSIS.PDF](https://chowe123.github.io/EarlChow/Hospital_Analysis.pdf)

Dec. 2021

- Identified ideal hospital locations in the Greater Toronto Area based upon variables and weightings through literature review
- Performed using network and raster analysis in ArcMap

### Geodatabase Updater GUI

[HTTPS://GITHUB.COM/CHOWE123/GDB-UPDATE-GUI](https://github.com/chowe123/GDB-UPDATE-GUI)

Jan. 2021

- Developed an GUI application which updates a geodatabase from an Excel file
- Application allows users to maintain and update GIS data without knowledge of ArcGIS or other GIS software
- Coded using Python, ArcPy, and Tkinter

## Education

### University of Waterloo

Waterloo, ON

CANDIDATE FOR BACHELOR OF ENVIRONMENTAL STUDIES, HONOURS GEOMATICS

Sept. 2018 - Present

- 4<sup>th</sup> Year Honours Geomatics, Minor in Computing

## Technical Skills

**Programming:** Python, ArcPy, Excel VBA, Javascript, SQL, R, C

**GIS Software:** ArcGIS Pro, ArcGIS, ArcGIS Online, QGIS, PostgreSQL, Google Earth Engine

**Other Software:** Excel, PowerBI, Adobe Creative Suite