

# ANDREW PAK

## Computer Science and Business Administration

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📍 Toronto, Canada

🌐 <https://github.com/Dimuendo>

## EDUCATION

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University of Waterloo and Wilfrid Laurier University

Computer Science and Business Administration Double Degree

📅 Expected 2021

📍 Waterloo, Ontario

- Relevant Coursework: Data Structures, Algorithms, Object-Oriented Software Development, Database Management

## WORK EXPERIENCE

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Scotiabank

Data Scientist Co-op

📅 January 2020 - April 2020

📍 Toronto, Ontario

- Created python scripts that scraped international banking data from various external sources to create models with R that predicted future expected credit losses for Peru based on several macroeconomic variables
- Used python-flask to create a calculator along with a web interface that output the expected credit losses associated with a given number of defaults and downgrades

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Motoinsight

Software Engineer Co-op

📅 January 2018 - April 2018

📍 Toronto, Ontario

- Developed python scripts that employed NumPy and pandas to track changes across hundreds of excel sheets each with thousands of data points filled with residual and incentive data for different automobiles
- Used python to automate the creation of email marketing campaigns by pulling vehicle information and incentives from manufacturer websites

## PROJECTS

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tftcomps.lol

Python, Flask, React, Javascript

📅 June 2020

- Website: tftcomps.lol
- GitHub Repo: <https://github.com/Dimuendo/tftcomps>
- This website aggregates the match data of the top 1000 players for the online video game Teamfight Tactics, it displays the most popular team compositions and statistics pertaining to items, units, and traits
- Front-end created in React and MaterialUI
- Back-end created in python-flask, endpoints return JSON data pertaining to item stats, unit stats, etc.
- Database in MongoDB that stores data for over 1000 different players and 20000 different matches
- Deployed python-flask API through Heroku and deployed React app through netlify

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Pathfinding Visualizer

HTML, CSS, Javascript, React

📅 November 2019

- Website: <https://dimuendo.github.io/pathfinding-visualizer/>
- GitHub Repo: <https://github.com/Dimuendo/pathfinding-visualizer>
- This project allows the user to visualize different pathfinding and maze-generation algorithms
- Implemented Dijkstra's, A\* search, breadth first search, and depth first search

## SKILLS

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C++

Java

Python

Git

JavaScript

React

HTML

CSS

SQL