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Christopher McGale

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EDUCATION

UNIVERSITY OF WATERLOO
Bachelors of Computer Science
Sep 2018 - April 2023 | Waterloo, ON

WILFRID LAURIER UNIVERSITY
Bachelors of Business Administration
Sep 2018 - April 2023 | Waterloo, ON

COURSEWORK

UNDERGRADUATE
Object Oriented Software Development
Computer Organization and Design
Optimization
Data structure and Data Management
Operating Systems
Advanced Algorithm Design and Analysis
Equity and Financial Analysis
Linear Programming
Combinatorics and Optimization
Compilers and Assembly Language

SKILLS

PROGRAMMING LANGUAGES
Proficient in:
C++ • Python3 • Javascript(ES6)
C • HTML • CSS
Familiar With:
Java • Shell • Latex • R

WEB FRAMEWORKS
React.js • Node.js • Express • Vue.js

OTHER
AWS • Heroku • Linux
Git • Keras • Wix • MS office
Valgrind • gdb • OOP
Functional Programming • MS Excel

WORK EXPERIENCE

CPA CANADA | Intern
Jan 2020 - Apr 2020 | Toronto, ON

- Collaborated with multiple departments while using agile development practices
- Researched a wide range of cross regional accounting standards
- Prepared presentations, documents and excel spreadsheets summarizing and analyzing info from databases and research

CITY OF TORONTO | Lifeguard | Pool in Charge
September 2016 - April 2019 | April 2019 - Jan 2020 | Toronto, ON

- Managed teams of 2 - 8 coworkers in both routine and emergency situations
- Analysis and reporting of chemical and patron statistics
- Constant public relation management

TECHNICAL PROJECTS

OBJECT ORIENTED IMPLEMENTATION OF CHESS | School Project
Final group project (3 members) written in C++, coordinated and hosted on Github. Includes UML and design document. Employed smart pointers, the Observer and the Strategy design patterns. Achieved a grade of 94%.

PUPPETEER FINANCIAL WEB SCRAPE | Personal Project
Accesses and performs simple operations on a large number of equities to determine whether they satisfy Benjamin Graham's 7 criteria. Back-end written in Python, Front-end written with Vue.js. Scrapper written in node.js using the puppeteer library.

SNAKE BROWSER GAME | Personal Project
Simple browser game written in HTML, JS and CSS. Implementation of the classic snake game, added multiple enhancements to both colour and speed.

HUFFMAN ENCODE AND DECODE | School Project
Written in C++. encode.cpp takes any English text and returns both the Huffman tree and the encrypted text. decode.cpp takes the output from encode.cpp and returns the initial text. Achieved a grade of 100%.

AI REAL ESTATE | Team Project
Gathers data on recently sold properties through puppeteer. Uses Keras neural network to create predictions of selling price for property from user input. Deployed **here**.

DISTINCTIONS

DECA PROVINCIALS | 2017, 2018 | Finance Division

OFSSA | 2016, 2018

GRADE 12 IB CALCULUS AWARD | 2018

IB DIPLOMA AND 4 YEAR FRENCH CERTIFICATE | Micheal Power St. Joseph

VOCATIONAL WORK

ICE BREAKER AND LIBC COUNSELLOR | Wilfirid Laurier university | 2019, 2020

WATERLOO ROBOTICS | 2020 - present

CAMP OLYMPIA LEADERSHIP CLUB | 2017-2018