

Nicholas Lee

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Technical Skills

Python C++ C# Java JavaScript HTML CSS | SQL and Power BI | Django Web Framework | Linux Scripting

Projects

Unbeatable Tic-Tac-Toe with HTML, CSS, and Javascript | Jan 2023

- Implemented Minimax, a backtracking algorithm, to create an [Unbeatable Tic-Tac-Toe Game](#)
- Algorithm implemented with JavaScript, and the responsive UI was made using HTML and CSS

Chess Game with C++ | Dec 2021

- Over the course of 2 weeks, used C++ to create an [Interactive Chess Game](#) interactive chess game with multiple difficulty modes and an interactive GUI using fundamental OOP principles/concepts/techniques (e.g. Encapsulation, Inheritance, Observers and Decorators, RAII, Debugging, Automated Testing, MVC and Exception handling)

Personal Website with HTML, CSS, and Javascript | April 2022

- Implemented HTML, CSS and JavaScript fundamentals to create a personal online [Website Portfolio](#)

Professional Experience

TigerCat Industries - Software Developer | Jan 2023 – Apr 2023

- Designed, tested, documented and deployed applications and services using C++, C# and .NET
- Developed multithreading software to retrieve device information for processing using C++ and C#
- Produced a GUI from scratch allowing users to complete engine testing and retrieve information from a database (SQLite) to generate meaningful reports to increase safety and efficiency
- Integrated firmware with foreign API in order to gather and analyze system information
- Created new features for front and back-end systems and integrated them with machine controls and telematics systems allowing for cross-device compatibility

OnCall Health - Junior Solutions Engineer/Account Coordinator | Jan 2022 – Apr 2022

- Increased efficiency of back-end processes through Python scripting and automation
- Implemented critical thinking to create automated testing and ensure coverage of all test cases
- Managed the workflow of multiple customer accounts to meet the expected client/patient journeys
- Effectively worked with the Django database system in order to modify and maintain client information and privacy

McMaster University - Venture Camp Counselor | Jul 2016 – Aug 2016

- Inspired a passion for technology using leadership skills by helping kids aged 6-13 learn the functions and applications of various programs and hardware (e.g. breadboards, animation)

Honours & Awards

- Consulting Case Competition | Toronto Dominion (TD) Bank – iD8 | Semi-Finalist
- University of Toronto National Book Award
- Honours Society – Aldershot High School – 4 years
- Aldershot Ontario Scholar Award & Governor General's Medal

Education

University of Waterloo - Computer Science | September 2020 - April 2025

Wilfrid Laurier University - Business Administration | September 2020 - April 2025

Double-Degree program

- University of Waterloo President's Scholarship of Distinction | 2021
- Consistent Excellent Standing at both University of Waterloo and Wilfrid Laurier University
- Played Basketball and Volleyball intramurals at the University of Waterloo | 2021 - Present