Nicholas Lee

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Technical Skills

Languages: Python, C++, C#, Java, HTML, CSS, JavaScript, SQL and RStudio
Frameworks: Django Web Framework and React
Other Software: SQLite, Power BI, MS Office Tools and 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
- Produced a finished C# Windows GUI which allowed users to complete engine diagnostics to generate meaningful reports allowing for increased safety and efficiency
- Developed multithreading software to retrieve device information for processing using C++ and C#
- Integrated firmware with external API's 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
- Utilized OOP principles to create C++ programs compatible with multiple OSes and targets
- Constructed a C++ module which facilitated the execution of simple queries on a SQLite database

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

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