Nicholas Lee

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Technical Skills

Programming Languages: Python, C++, C#, Java, JavaScript/TypeScript, SQL, Kotlin
Frameworks & Libraries: React, Django, FastAPI, TensorFlow
Cloud & DevOps: Git, AWS, Azure, Docker, Kubernetes, GitHub Actions
Databases: SQLite, PostgreSQL, MongoDB
Tools & Methodologies: NUnit, Selenium, Bash, REST APIs, WebSocket protocols, Power BI, Jira, Google BigQuery, Linux Scripting

Projects

Web-Based Python Code Execution Environment | May 2024
- Users can write, execute and save code in a web-based [Python 3 Execution Environment](#)
- The frontend uses **React** (Vite), **TypeScript**, and **Tailwind** CSS for an intuitive interface, while the backend uses **Python** and FastAPI for code execution and management, with local **SQLite** storage

Implementation of Minimax Algorithm 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**

Personal Website with HTML, CSS, and Javascript | April 2022
- Applied **HTML**, **CSS** and **JavaScript** fundamentals to create a personal online [Website Portfolio](#)

Professional Experience

Senstar Corporation - Software Developer | Sept 2024 – Dec 2024
- Completed **cybersecurity** enhancements by mitigating **session token** vulnerabilities in URLs to prevent sensitive information exposure, ensuring robust **HTTPS** session management.
- Integrated internal systems with Azur Drones' Skeyetech surveillance platform via **REST API**s and **WebSocket** protocols. Streamlined data exchange for enhanced operational efficiency and UX.
- Developed and deployed hardware-accelerated **machine learning** models on TI AM62A-LP dev kits, processing multi-sensor video streams and achieving real-time **object detection**.

Geotab Inc - Software Developer | Jan 2024 – Apr 2024
- Developed robust **C#** and **.NET** applications, enhancing process efficiency, scalability and reliability
- Utilized **Google BigQuery** to retrieve and analyze large datasets, helping fleet managers find key information to improve processes
- Designed and implemented a back-end API utilizing **C#**, coupled with a dynamic **Typescript** webpage, allowing fleets to seamlessly email HOS logs, enhancing UX and regulatory compliance

Tigercat Industries - Software Developer | Jan 2023 – Apr 2023
- Designed, tested, documented and deployed applications and services using **C++, C#** and **.NET**
- Employed **multithreading** in **C++** and **C#** to efficiently retrieve and process device information

OnCall Health - Junior Solutions Engineer/Account Coordinator | Jan 2022 – Apr 2022
- Increased efficiency of back-end processes through **Python scripting** and **automation**

Honours & Awards

- Consulting Case Competition | Toronto Dominion (TD) Bank – iD8 | Semi-Finalist
- University of Toronto National Book Award
- 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