Nicholas Lee

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Languages: Python, C++, C#, C, Java, JavaScript, TypeScript, SQL, Kotlin
Frameworks & Libraries: React, Django, FastAPI, TensorFlow, REST API, WebSockets, Node.js, .NET, Flask
Cloud, DevOps & Databases: AWS, Microsoft Azure, Docker, Kubernetes, GitHub Actions, SQLite, MySQL, PostgreSQL, MongoDB, GCP, Jenkins, Elasticsearch, ELK Stack
Tools & Testing: Git, Bash, NUnit, Selenium, Power BI, Jira, Google BigQuery, Postman, Agile, Confluence

Education

University of Waterloo - Computer Science	September 2020 - August 2025
Wilfrid Laurier University - Business Administration	September 2020 - August 2025

Double-Degree program
- University of Waterloo **President's Scholarship of Distinction** | Consistent Term Distinction
- Consistent Excellent Standing at both University of Waterloo and Wilfrid Laurier University
- Relevant Coursework: Operating Systems, Computer Networks, Artificial Intelligence, Software Testing

Professional Experience

Software Developer - Senstar Corporation   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 APIs** 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**.

Full Stack Developer - Geotab Inc.   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

Software Engineer - Tigercat Industries   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
- Designed and launched a custom graphical interface enabling engine testing and diagnostics, producing detailed reports that improved safety and efficiency

Solutions Engineer - OnCall Health   Jan 2022 – Apr 2022
- Streamlined back-end workflows by developing **Python** automation scripts, reducing process time by ~30%
- Developed **automated test** suites, ensuring exhaustive coverage of critical functionality and reducing defects
- Managed customer data via **Django** ORM to maintain accurate client records and privacy compliance

Projects

Fantasy Investments – Android Fantasy Stock Market Simulator 🔗   April 2025
- **Team lead** of a four-person team creating an android app with simulated stock trading and interactive educational resources
- Leveraged **Kotlin** frontend, **Supabase** auth/datastore, and Polygon.io API for real-time stock data

FocusTrackAI – AI-Powered Desk Productivity Monitor 🔗   March 2025
- Integrated Ultralytics **YOLOv8** pretrained model to detect desk activity to classify study vs. distraction events
- Designed **React** dashboard showcasing live focus metrics, session analytics, and custom distraction alerts for parents

WatTravl – Campus Navigation Android Application 🔗   Dec 2024
- Designed a Campus Navigation App with **pathfinding**, outdoor support, and accessibility options
- Utilized Android (**Kotlin**), Google **APIs** (Maps, Places, Directions), and SendGrid API for pathfinding, **UI/UX**, and secure access

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