

# James Nitsch

Waterloo, Ontario

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## Relevant Skills

- French (Fluent), German (Beginner), Spanish (Beginner)
- Docker Framework
- Strong communication skills
- C, C++, Python, SQL, TypeScript, React, Racket
- Excel (Pivot tables, vLookups, etc.)
- Excellent organizational abilities
- Windows, MacOS, Linux, Git
- Experience working in multiple fast-paced environments

## Experience

### German Aerospace Center (DLR)

Stuttgart, Germany

SOFTWARE ENGINEER

Jan. 2024 - Apr. 2024

- Developed and maintained a Python web tool to provide researchers with efficient HVAC system design calculations for railway vehicles
- Created a captivating Hannover Messe 2024 demonstration showcasing the future of electric vehicle charging with mobile, hydrogen fuel powered units
- Facilitated communication between trains operating near Berlin and DLR, enabling the comprehensive logging of critical operational data essential for the successful integration of hydrogen trains in Germany
- Contributed to hydrogen fuel cell research and development through assembly and disassembly of testbenches in a laboratory environment

### Toronto District School Board (TDSB)

Toronto, Ontario

SECURITY RISK AND AUDIT ADMINISTRATOR

May. 2023 - Sept. 2023

- Conducted Cyber Risk Assessments to evaluate the security and privacy risks of online services
- Improved TDSB processes by performing testing of a new ServiceNow GRC implementation
- Communicated with board members and clients in a friendly and cooperative manner to resolve issues
- Leveraged pivot tables and other Microsoft Excel tools to create useful visualizations of Cyber Risk Assessment data
- Ensured compliance with security frameworks (NIST, ISO 27001, etc.)
- Administered Cyber Risk Reassessments to evaluate the implementation of Security and Privacy recommendations

### Ed's House Hospice - Community Care Northumberland

Cobourg, Ontario

MAINTENANCE TECHNICIAN

Jun. 2021 - Sept. 2022

- Responsible for upkeep of 2 acre property
- Collaborated with volunteers to maintain gardens, mowed and weedwhipped grass and kept parking lot tidy for visitors
- Kept outdoor spaces in good condition for residents and guests

## Projects

### RAIINet Game

LANGUAGE: C++

Nov. 2023 - Dec. 2023

- A two player game very similar to Stratego
- Built with sound Object-Oriented Programming practices
- Support for text-based terminal gameplay or graphical gameplay

## Honours and Awards

2022 **Recipient**, Pochon Award (Presented to the student with the highest academic standing in French)

Cobourg, Ontario

2022 **Recipient**, University of Waterloo President's Scholarship of Distinction

Waterloo, Ontario

2022 **Recipient**, W. Ross Pinkerton Memorial Scholarship (For academic achievement)

Cobourg, Ontario

2020 **8th Place (out of approximately 1500)**, Nipissing Stock Market Challenge

North Bay, Ontario

## Education

### University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BACHELOR'S OF COMPUTER SCIENCE

Sept. 2022 - Apr. 2027

- Cumulative GPA: 88%
- Computer Science Representative for Math Endowment Funding Council