lames Nitsch

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Relevant Skills

- French (Fluent), German (Beginner), Spanish (Beginner)
- · Git, Make, GDB, Valgrind
- Docker Framework

- Python, C, C++, Bash, Racket, SQL
- JavaScript, TypeScript
- Excel (Pivot tables, vLookups, etc.)
- Windows, MacOS, Linux
- Matplotlib, NumPy
- HTTP Requests

Experience_

German Aerospace Center (DLR)

Stuttgart, Germany

Jan. 2024 - Apr. 2024

- SOFTWARE ENGINEERING INTERN
- · 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
- Designed a solution for dynamic visualization of MATLAB energy data using Sankey Diagrams

Toronto District School Board (TDSB)

Toronto, Ontario

May. 2023 - Sept. 2023

SECURITY RISK AND AUDIT ADMINISTRATOR

- 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

MAINTENANCE TECHNICIAN

Cobourg, Ontario

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

Proiects

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

2024	Recipient, Douglas T. Wright International Co-op Award	Waterloo, Ontario
2024	Recipient, University of Waterloo President's International Experience Award	Waterloo, Ontario
2022	Recipient, University of Waterloo President's Scholarship of Distinction	Waterloo, Ontario
2022	Recipient , Pochon Award (Presented to the student with the highest academic standing in French)	Cobourg, Ontario
2022	Recipient, W. Ross Pinkerton Memorial Scholarship (For academic achievement)	Cobourg, 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

MAY 19, 2024 JAMES NITSCH · RÉSUMÉ