TADG O'HARE

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EDUCATION

Carleton University   Ottawa, ON
Bachelor of Computer Science   *August 2020 – May 2025*

Westdale Secondary School   Hamilton, ON
French Immersion Certificate   *September 2016 – June 2020*

EXPERIENCE

Student Systems Engineer   May 2022 - September 2022
Canadian Air Transport Security Authority (CATSA — ACSTA)   *Ottawa, ON*
- Upgraded systems for a return to work in a post-COVID working environment
- Worked on creating tools to further help with workflow tasks
- Spoke both English and French in a professional environment

Data Analyst/Project Support Officer | *PowerBI, Sharepoint, Excel*   Currently Employer Since May 2024
- Created PowerBI dashboards for various programs in HR to track progress
- Migrated data from outdated systems to SharePoint for easier access and better collaboration between teams
- Altered tracking programs to have data structured in a way that can be easily analyzed and visualized by reporting software
- Analyzing large datasets to find trends and patterns to help with decision making
- Created a desktop application to automate data entry into fillable forms to clear backlog and reduce human error
- Gained the ability to solve technical problems and communicate with non-technical staff working with a non-technical team and solving technical problems independently without the help of management
- Learned professional communication skills working in a HR environment

PROJECTS

Relax Project | *Java, Relational Algebra*   September 2024
- Relational algebra query tool
- Does standard relational algebra queries/operations on CSV tables (sigma, pi, natural join, etc.)
- Bonus project on Github for database management class

MakerCon | *JavaScript, Node.js, React Native, Google Cloud*   March 2023
- Smartphone app that identifies colour, text and different objects to help those who are visually impaired
- Uses Google Vision API to identify objects and text and uses Google Text-To-Speech API to read the data aloud
- Mobile component of application built using React Native

Diary AI | *JavaScript, React, Python, OpenAI*   January 2023
- AI powered journaling web application that follows up on entries
- Used OpenAI GPT-3 to compound prompts in a Chat-GPT way but for larger responses.
- Helps users writers block by formulating custom response prompts

OASIS Shock Therapy Device | *C++, QT*   November - December 2022
- Simulation of an OASIS home shock therapy device that achieved 80% of the original device's functionality
- Consisted of using C++ and the QT framework for the GUI
- Project was conducted using software engineering paradigms such as UML diagrams and Agile Development

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Haskell, LaTeX
Frameworks: React, React Native, Node.js, MongoDB/Mongoose, QT, Google Cloud
Developer Tools: Git, VS Code, Visual Studio, Bash/ZSH, Powershell
Certifications: Canada Secret Clearance