

# TADG O'HARE

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## EDUCATION

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### Carleton University

Bachelor of Computer Science

Ottawa, ON

August 2020 – May 2025

### Westdale Secondary School

French Immersion Certificate

Hamilton, ON

September 2016 – June 2020

## EXPERIENCE

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### 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

## PROJECTS

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### 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

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS

**Frameworks:** React, React Native, Node.js, MongoDB/Mongoose, QT, Google Cloud

**Developer Tools:** Git, VS Code, Visual Studio, VIM

**Certifications:** Canada Secret Clearance