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#### **HIGHLIGHTS**

- Efficient in learning new tools and technologies
- Skilled and enthusiastic in web development, games and UI/UX design
- Well-versed in software development life cycles
- Reliable team player enjoys sharing, discussing and learning new ideas and approaches

#### **EDUCATION**

B.S. Computer Science Co-op Ontario Tech University - Oshawa ON 2017 - 2022

#### **TECHNICAL SKILLS**

# \* Programming

JavaScript, Python, Java, Kotlin, Dart, C++, C#

## \* Web Development

React, Node.js, HTML, CSS, Webpack, Flask, Socket.IO

## \* Tools & Technologies

Bash, Git, Flutter, Unity, Docker, MySQL, MongoDB, PostgreSQL, Firebase, Linux/UNIX, Windows

#### **\*** Patterns & Practices

UI/UX Design, Object Oriented Programming, UML, Functional Programming, Wireframing, Algorithms, Data Structures

#### **WORK EXPERIENCE**

## > Web Developer, UG Research Fellow

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[cardit.vialab.ca] [covidconnect.me]

vialab - Oshawa ON

**Project 1** - Built Card-IT, a web app that teaches Italian verb morphology through flashcards. Users can study and be quizzed on decks of verb conjugation flashcards that they organize for themselves. Developed a visually appealing frontend with React and Sass along with its backend built with Flask and MySQL.

**Project 2** - Collaborated in developing Covid Connect, a web app that serves as a mental health chatbot for people to share their stories and difficulties related to the COVID-19 pandemic. Designed a novel visualization system using D3.js and Pixi.js which allows users to view stories of others that are similar to their own.

May 2020 - Apr 2022 — D3.js, Pixi.js, React, Sass, Webpack, Flask, MySQL, Docker

#### > Teaching Assistant

Ontario Tech University - Oshawa ON

Managed, marked and assisted students in labs for Intro to Programming for Scientists (Python) and Programming Workshops I/II (C++). These courses cover programming fundamentals, problem solving strategies, memory management and documentation.

Jan 2020 - Apr 2020, Sept 2021 - Apr 2022 — Python, C++

# **PROJECTS**

#### Card-IT Multiplayer Gamification [UG Honours Thesis]

[carditversus.vialab.ca]

Gamified a language learning application (Card-IT) so that multiple players race through a quiz. Players can assist themselves and slow down their opponents by using items gained along the way. Multiple Card-IT sessions communicate through Socket.IO.

Sept 2021 - Apr 2022 — React, Sass, Socket.IO, Flask, MySQL

#### ➤ QuizMe

[github.com/TylerBroda/QuizMe]

An Android app where users can create their own multiple choice quizzes for studying. Quizzes made by others can be explored and filtered through by category. A specific user can be followed to easily view their quizzes.

Nov 2021 - Dec 2021 — Flutter, Dart, Firebase, SQL