

# Available

January 2023 - December 2023

# Education

## B.Eng Co-op Program

Memorial University of Newfoundland

☑ Class of 2024

## Math and Physics Associate Degree

St. John's College Junior College

☑ September 2017 - June 2019

# Awards

## Bounce Health Innovation Hackathon

May 2022 - 3rd Place

## Hack Frost NL Hackathon

February 2021 - 1st Place

## PEGNL Scholarship

September 2020

## Engineering One Scholarship

September 2019

# Projects

## MUNster Job Search Web Application

- Software Development course final project
- Developed the application backend using Python, MongoDB, FastAPI, Docker, Jenkins, GCP and Kubernetes

## Counter-19 Web Application

- 1st Place Hackathon Project
- Developed using HTML, CSS, JS
- Additional device developed using Arduino and C++

## Elon's Adventure 2D Game

- Game Development course final project
- Developed for Linux/Windows using C++, ECS architecture, AI and Linear Algebra Concepts

## SimpliFyle File Organizer Software

- Software Design course final project
- Developed using Python and the TKinter library for Windows

## Northwest Territories Map Web

- Internship Project
- Developed using React, Mapbox GL, Chakra-UI and Sentinel images

## Electronic Drum Machine On FPGA

- Digital Logic course final project
- Developed using VHDL and a DE1-SOC development board

# Kyle Shal

4th Year Computer Engineering Student

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# Work History

## Software Developer Intern

C-CORE

📍 St. John's, NL

☑ May 2022 - August 2022

- Delivered data-intensive **web applications** using **React**, **Python** and **Google Cloud Services** following agile methodologies.
- Motivated smarter development decisions using **data science** reports on geospatial datasets (**Pandas**, **NumPy**, **Matplotlib** and **Jupyter Notebook**).
- Promoted standardization of best practices and captured metrics for code quality through **streamlining documentation** processes.

☑ August 2021 - December 2021

- Reduced the lifetime of a satellite transponder project for the European Space Agency by **automating database tasks** with **Python**.
- Creating a foundation for 10+ value-added services through developing a geospatial **data back-end** using **Firebase**.
- Promoted data handling services, increasing customer engagement by 30%, through **designing** and **deploying** 15+ **product websites**.

## Web Developer Intern

Memorial University of Newfoundland

📍 Remote

☑ January 2021 - May 2021

- Developed multiple features of a native **iOS app** using **Swift** and smartwatch integration to collect health research data.
- Contributed to **open-source development** using **Docker** and **Objective-C**.
- Used **GitHub Issues** and **PR process** to review code and keep track tasks.

# Extracurriculars

## Logistics Lead

Google Developer Student Club (GDSC MUN)

☑ September 2021 - May 2022

- Equipped students with skills in **Google VMs**, **Elastic Apps**, **Cloud Functions**, **Cloud Build** and **Kubernetes** through organizing local monthly **workshops** and keeping up to date with other GDSC clubs across Canada.

## Software Developer Mentor

Canadian Premiere Robotics (CPR)

☑ September 2021 - May 2022

- Taught students **HTML**, **CSS**, **JS**, **Swift** and **Git** usage for **Web** and **Mobile App Development** through **seminars** and project creation.

## Programming Committee VP

Canadian Federation of Engineering Students (CFES)

☑ October 2021 - February 2022

- Provided the opportunity for students to reach out to industry professionals by **networking** with and **scheduling workshop facilitators** for the Canadian Engineering Leadership Conference (CELC) 2022.