## **KYLE SHAL**

#### **Computer Engineering Student**

@ kashal@mun.ca

**(+1)** 7097275911

in Kyle Shal

kyle-shal

kyleshal.com

## **EXPERIENCE**

## Software Developer Co-op (2 Terms) **C-CORE**

May 2022 - August 2022

St. John's, NL

- Implemented geospatial solutions using tools such as React, Mapbox GL and Google Cloud Platform.
- Performed data science using Python to derive valuable insights and make smarter development decisions.
- Reduced development costs through maintenance and service migration of multiple company websites.

## August 2021 - December 2021

- Used Cloud Automation to create SpatioTemporal Asset Catalogues (STAC) so data can be more easily be worked with, indexed, and discovered.
- Created engaging product websites to promote end-to-end geospatial data handling services, turning more visitors into buyers.
- Drove to completion a web application to standardize the team's general software development cycle.

#### Web Developer Co-op

#### **Memorial University of Newfoundland**

🛗 January 2021 - May 2021

St. John's, NL

- Developed multiple features of native iOS app for health research purposes.
- Worked with Open mHealth to continue development of open source tools using Docker.

## **PROJECTS**

#### FPGA Drum Machine

#### **Academic Project**

• Collaborated to develop an Electronic Drum Machine that produces sampled percussion sounds using a DE1-SOC development board.

#### SimpliFyle

#### **Academic Project**

February 2022

- Collaborated with a teammate to develop a smart file organizer designed to free up students' time and prevent disorganization.
- Built using python and the tkinter library.

#### Counter-19

#### **Hackathon Project**

February 2021

- Led a team of 4 to create an automated live occupancy monitoring system to counter the social distancing effects of Covid-19.
- Built using C++, Swift, JS, HTML, CSS, and Arduino tools.

### **EDUCATION**

## B.Eng Co-op Program Memorial University of Newfoundland

September 2019 - April 2024

St. John's, NL

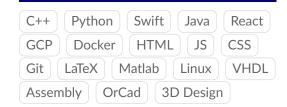
## Math and Physics Associate Degree St. John's College

## September 2017 - June 2019

Belize, CA

• Consecutive Dean's list award.

## **SKILLS**



### COURSEWORK

- Data Structures and Algorithms
- Object-Oriented Programming
- Software Development Practices
- Software Design and Architecture
- Communication Networks
- FPGA Programming
- Database Management Systems
- Circuit Analysis

# POSITIONS OF RESPONSIBILITY

- Logistics Lead- GDSC MUN
   Organized various Google-based workshops and tech talks to better equip students with software developer skills.
- Mentor- Canadian Premiere Robotics
   Hosted software development workshops to for students interested in STEM careers and robotics competitions.

### **AWARDS**

- 3rd Place Award Bounce Health Innovation Hackathon (2022)
- 1st Place Award Hack Frost NL Hackathon (2021)
- PEGNL Scholarship (2020)
- Engineering One Scholarship (2019)