

KYLE SHAL

Computer Engineering Student

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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 geospatial data science using Python for Remote Sensing Industry clients.
- Reduced development costs through maintenance and service migration of multiple company websites.

August 2021 – December 2021

- Gained experience using Cloud Automation and Cloud Native Geospatial Technologies.
- Created multiple product websites to promote end-to-end geospatial data handling services.
- Drove to completion a web application to standardize the 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

April 2022

- 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 for academic-based organization.
- 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

SKILLS

C++

Python

Swift

Java

React

GCP

Docker

HTML

JS

CSS

Git

LaTeX

Matlab

VHDL

Assembly

OrCad

3D Design

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 web and app development workshops to for students interested in STEM careers.

AWARDS

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