

KYLE SHAL

Computer Engineering Student

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in Kyle Shal

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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 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

📅 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 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

C++	Python	Swift	Java	React
GCP	Docker	HTML	JS	CSS
Git	LaTeX	Matlab	Linux	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 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)