Kyle Shal

Computer Engineering Student

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Education

B.Eng Co-op Program
Memorial University of Newfoundland
September 2019 - April 2024

Math and Physics Associate Degree
St. John's College Junior College
September 2019 - April 2024

Skills

C+ Python Java Swift
React GCP Docker JS
HTML CSS Git LaTeX
VHDL 3D Design Figma
Matlab Linux OrCad

Coursework

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

Leadership Experience

Logistics Lead
Google Developer Student Clubs 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

Bounce Health Innovation Hackathon
2022 - 3rd Place Award

Hack Frost NL Hackathon
2021 - 1st Place Award

PEGNL Scholarship
2020

Engineering One Scholarship
2019

Experience

Software Developer Co-op (2 Terms)

C-CORE — St. John's, NL
May 2022 - August 2022

- 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 Catalogs (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 clients.
- Drove to completion a web application to standardize the team's general software development cycle.

Web Developer Co-op

Memorial University of Newfoundland — St. John's, NL
January 2021 - May 2021

- 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

Electronic 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.