

Neil Louise A. Castillon

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EDUCATION

Memorial University

St. John's, NL

Bachelor of Engineering in Computer Engineering

Sep. 2021 – May 2026

- **Interest:** Robotics, Control Systems, Machine Learning, Data-protection/Cyber-security
- **Honors & Awards:** Wilfred & Rose Davis Scholarship, 2021
- **School Projects:**

Morse Encoder & Decoder | Arduino Uno, Python, C++

OP Amp Design | Pspice, Breadboard

Digital System Clock (Timer, Countdown) | VHDL, FPGA Board (DE1-SoC), ModelSim

Digital System Calculator | VHDL, FPGA Board (DE1-SoC), ModelSim

EXPERIENCE

Software Developer | Co-op

May 2024 – Present

Jeddah International School

Jeddah, Saudi Arabia

- Collaborating to create a dashboard web application to conduct reports and analysis on student and teacher data.
- Developing comprehensive reports on website issues and design considerations, and implemented code solutions to address identified problems.
- Debugging and troubleshooting computer hardware and software, involving network server environments.

Software Engineer | Co-op

Sep. 2023 – Jan. 2024

NL Eats

St. John's, NL

- Collaborated and led a team to develop the NL Eats Hydroponic mobile app using **MongoDB**, and **Javascript**
- Designed and launched **2** dynamic websites, using **Figma** and **JavaScript**, to raise awareness about food insecurity by **20%**
- Conducted analysis on streamline connection between hydroponic systems and servers, improving latency by **30%**

CERTIFICATIONS

Computer Hardware - Cisco, 2024

React - The Complete Guide (incl. React Router & Redux) - Udemy, 2023

Onshape Fundamentals: CAD - Onshape, 2022

TECHNICAL SKILLS

Languages: VHDL, Assembly, Java, Python, C/C++, C#, MongoDB, JavaScript, Typescript

Developer Tools: Solidworks, AutoCAD, Simulink, PSpice, Matlab, ModelSim, VS Code, IntelliJ, AWS, Git, Microsoft Azure

Technologies: React.js, React Native, Express.js, NodeJS, Flask, Firebase, Tailwind CSS, JavaFX

SoftSkills: Communication, Critical Thinking, Time Management, Adaptability, Team Player, Attention to Detail

PROJECTS

NL Eats Hydroponic | *Arduino UNO, React Native, Express.js, Microsoft Azure*

Sep. 2023 – Dec. 2023

<https://github.com/neillouis3/NLEats-Hydroponics>

- Engineered a **full-stack mobile application** for managing hydroponic systems, with real-time data processing
- Implemented **React Native**, and **Express.js** serving as REST API for a **Microsoft Azure** backend, with support for over **20** different species of plants
- Incorporated **Microsoft Azure** to establish a streamline live connection from an Arduino UNO system to a **MongoDB** database in **C**

Webpage | *NextJS, Typescript, Python, MySQL*

Dec. 2023 – Present

<https://jchekim.vercel.app/>

- Designed and built a user-friendly full-stack website using **NextJS**
- Leveraged **Flask** as Rest API alongside MySQL database, resulting in a fast and secure data management.