

# Emilio Roche

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## Work Experience

### Junior Developer

Halifax, NS

SIMPLY CAST

Jan. 2021 – Apr 2021

- Improved Simply Cast application system stability by implementing bug fixes using Javascript and PHP.
- Used JavaScript and PHP to refactor inefficient existing software.
- Ran integration tests for functionality in the dev environment of the Simply Cast application.
- Collaborated with SimplyCast Product team to redesign and implement front-end technology on the Customer-facing application.
- Used Phabricator integrated with Git for code review and bug tracking.

### Software Developer

Halifax, NS

MACDONALD DETTWILER & ASSOCIATES (MDA)

May 2020 – Aug. 2020

- Used Typescript/HTML/CSS to implement a sub-section in a management window in the TRITON application.
- Used Angular framework to assist in the development and defect maintenance of the TRITON application.
- Operated within a Scrum methodology to prioritize tasks and requirements to complete user stories during sprints.

### Junior Programmer Analyst

Halifax, NS

PUBLIC SERVICE COMMISSION OF THE GOVERNMENT OF CANADA

Sept. 2019 – Dec. 2019

- Developed automated test scripts using Selenium to check validity of applications in development.
- Produced time and memory efficient by scaling automated test scripts.
- Wrote documentation for a new application introduced to the ASD Application Division, Katalon Studio.

### Help Desk Technician

Halifax, NS

DALHOUSIE UNIVERSITY

Jan. 2022 – April 2022

- Provided daily technical support for network connectivity, peripherals, and system maintenance (e.g. OS installations).
- Assisted in the installing and maintenance of the networking infrastructure in the building.
- Categorized and resolved help desk tickets based on severity.

## Skills

**Languages:** Proficient in Java; Familiar with C, PHP, JavaScript, TypeScript, Python, P4, SQL

**Dev.Tools:** Angular, React, Jenkins, Heroku, Postman, Mininet, OVS, OpenFlow, Ryu, Scapy

**Ver.Control:** Git, Phabricator, SVN

## Academic Projects

### Supplement Adherence Application - Software Engineering (CSCI 3130)

Android Studio, Firebase, Java

A MOBILE APPLICATION FOR USERS TO CREATE AN ACCOUNT TO CREATE AN ACCOUNT AND RECEIVE NOTIFICATIONS THAT WOULD HELP PATIENTS KEEP TRACK OF THEIR PRESCRIPTIONS AND WHEN TO TAKE THEM

### Classification of Encrypted Network Traffic - SDN Research Project (CSCI 6709)

P4, Python

USING A DECISION TREE PORTED TO A SOFTWARE DEFINED SWITCH, ENCRYPTED NETWORK TRAFFIC WAS CLASSIFIED INTO 7 MAJOR TYPES USING ONLY 4 RELATED PACKET FEATURES (MAX FIAT, MAX BIAT, MAX FLOWIAT, AND MAX IDLE)

## Awards

Dalhousie University

**Dean's List**, Dean's List, Achieve a GPA of at least 3.70 in the academic year.

2019/2020/2022

Dalhousie University

**Sexton Scholar**, Students in the faculty of Computer Science or Engineering who achieve a GPA of at least 3.85 in the academic year.

2021

## Education

### Dalhousie University

Halifax, NS, Canada

BACHELORS OF COMPUTER SCIENCE - SPECIALIZATION: COMMUNICATIONS AND CYBER SECURITY

Sep.2017 – May.2022