

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

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).

Sports Stats App - (In Progress)

Express.js, Heroku, GH-Pages

A REACT BACKEND & FRONTEND APPLICATION THAT DISPLAYS SPORTS STATS TO A HOSTED WEB PAGE.

Awards

Dalhousie
University

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

2019/2020/2021/2022

Education

Dalhousie University

Halifax, NS, Canada

BACHELORS OF COMPUTER SCIENCE - SPECIALIZATION: COMMUNICATIONS AND CYBER SECURITY

Sep.2017 – May.2022