

Emilio Roche

✉ emiliosroche@gmail.com | ☎ 281-912-4719 | 📍 Calgary, AB | 🔗 <https://emilioroche.github.io>

Work Experience

Junior Full-Stack Developer

Calgary, AB

KATIPULT

Dec. 2022 – Present

- Identified and resolved software Javascript and PHP bug issues in platform to ensure optimal functionality and performance.
- Designed and configured automated test result notification system in Javascript to identify failing tests run on daily Bitbucket pipeline.
- Implemented necessary updates & changes to API's, ensuring compatibility & integration with existing systems.
- Played a key role in successfully transitioning the Company's new testing framework resulting in enhanced test efficiency & scalability.

Junior Developer

Halifax, NS

SIMPLYCAST

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.

Software Developer

Halifax, NS

MACDONALD DETTWILER & ASSOCIATES (MDA)

May 2020 – Aug. 2020

- Used Typescript to implement a sub-section in a management window in the TRITON application.
- Applied 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.
- Scaled automated test scripts to increase time and memory efficiency.
- Wrote clear technical documentation for a new application, Katalon Studio, that was introduced to the ASD Application Division.

Education

Dalhousie University

Halifax, NS, Canada

BACHELORS OF COMPUTER SCIENCE - SPECIALIZATION: COMMUNICATIONS AND CYBER SECURITY

Sep. 2017 – May 2022

Skills

Languages:

Proficient in Java; Familiar with C, C#, PHP, JavaScript, TypeScript, Python

Tools:

Docker, Jenkins, Github Actions, Heroku Cloud, Postman, Git, SQL, PostgreSQL, MySQL

Frameworks & Libraries: Angular.js, React.js, Node.js, Express.js, Laravel

Projects

Sports Stats Web App : Experimental - <https://emilioroche.github.io/sports-stats/>

Express.js, React, Heroku, PostgreSQL, Github Actions

A HOSTED WEB APPLICATION THAT DISPLAYS SPORTS STATS. BACKEND USES HEROKU DATABASE, CALLING POSTGRES SQL QUERIES AND TURNS THEM INTO REST API ENDPOINTS HOSTED ON HEROKU CLOUD. FRONTEND CALLS API AND DISPLAYS DATA.

Empowered Futures App

Express.js, Docker, MongoDB, Google Cloud

VOLUNTEERED AS A BACKEND DEVELOPER FOR A LOCAL NON-PROFIT ORGANIZATION. BUILT SIGN-UP / LOGIN FEATURES USING PASSPORT WITH JWT, AND IMPLEMENTED GOOGLE SIGN IN FOR AUTHENTICATING USERS USING GOOGLE OAUTH 2.0. DEVELOPED SCHEMA TO BE USED IN MONGODB AS 'DOCUMENTS', FOR MULTIPLE COLLECTIONS.

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).

