

# EMILIO ROCHE

Calgary, AB · emiliosroche@gmail.com · 281-912-4719 · <https://emilioroche.github.io>

## WORK EXPERIENCE

### Katapult

*Jr. Full-Stack Developer*

Calgary, AB

Dec. 2022 - Present

- Worked within an **Agile** Scrum environment to enhance and maintain an investment management platform, developing new features built with **Laravel**, **CakePHP**, **JavaScript**, and **Vue**.
- Handled client database migration requests using **MySQL** for upcoming releases and live platform updates, ensuring accurate implementation and seamless deployment.
- Diagnosed and resolved front-end and back-end bugs within the platform, ensuring optimal functionality, performance, and user experience.
- Developed and configured an automated test result notification system to identify failing tests, integrated with the daily **CI/CD** Bitbucket pipeline for streamlined issue detection and resolution.

### SimplyCast

*Jr. Developer*

Halifax, NS

Jan. 2021 - Apr. 2021

- Enhanced the stability of the SimplyCast application by implementing bug fixes with **JavaScript** and **PHP**, ensuring smoother performance and reliability.
- Refactored existing software for improved efficiency, optimizing performance on the platform.
- Ran integration tests for functionality in the dev environment of the SimplyCast application.

### MDA Space Ltd.

*Software Developer*

Halifax, NS

May 2020 - Aug. 2020

- Implemented a new feature in a Submarine system application using **TypeScript**, enhancing functionality and user experience.
- Supported the development and maintenance of the Submarine system application in **Angular**, addressing and resolving bug defects as they arose.
- Worked within an **Agile** Scrum methodology to prioritize tasks and requirements, ensuring timely completion of user stories during sprints.

### Government of Canada (Public Service Commission)

*Jr. Programmer Analyst*

Halifax, NS

Sept. 2019 - Dec. 2019

- Created and scaled automated test scripts using **Selenium** to validate the functionality and reliability of applications in development.
- Wrote clear technical documentation for a new application, Katalon Studio, that was introduced to the Application Division.

## SKILLS

Languages:	<b>Proficient</b> in Java, PHP, JavaScript, TypeScript; <b>Familiar</b> with C, C#, Python
Developer Tools:	Docker, Github Actions, Heroku Cloud, Postman, Git
Frameworks & Libraries:	Laravel, CakePHP, Angular, React, Express, Node
Databases:	MySQL, SQL, PostgreSQL

## EDUCATION

### Dalhousie University

Bachelors of Computer Science - Specialization: Communications and Cyber Security

Halifax, NS

Sept. 2017 - May 2022

## PROJECTS

### Classification of Encrypted Network Traffic - SDN Research Project (CSCI 6709) P4, Python

SDN Research Project: Implemented a decision tree on a software-defined switch to classify encrypted network traffic into 7 types using 4 key packet features (max fiat, max biat, max flowiat, and max idle).

### Sports Stats Web App Express, React, Heroku, Github Actions, PostgreSQL

Football Stats from my 6 favourite leagues around the world. Standings data is automatically updated once every week on Mondays, done with **Github Actions**, on a Workflow **Cron Job**.

## AWARDS

### Dalhousie University

Dean's List

2019/2020/2021/2022