Emilio **Roche**

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Education

Dalhousie University — *Halifax, NS, Canada*

Bachelors of Computer Science (Co-op) with Communication Technologies and Cyber Security specialization — *Sept 2017 – May 2022*

Relevant Work Experience

Public Service Commission of the Government of Canada — *Halifax, NS*

Junior Programmer Analyst — *Sept 2019 – Dec 2019*
- Developed automated test scripts using Selenium to check validity of applications in development.
- Introduced scalable automated script writing, making running test scripts more time and memory efficient.
- Debugged an application program to find and solve bugs disrupting data in the backend database.
- Wrote documentation for a new application introduced to the ASD Application Division, Katalon Studio.

MacDonald Dettwiler & Associates (MDA) — *Halifax, NS*

Software Developer — *May 2020 – August 2020*
- Used Typescript/HTML/CSS to implement a sub-section in a management window in the TRITON application that determines interferences between operating area objects.
- Used AngularJS framework to assist in the development and defect maintenance of the TRITON application.
- Operated within a Scrum methodology to prioritize tasks/requirements during two-week sprints to promote time management skills and attainable goal setting.
- Improved communication skills and self-reliance while working from home during a global pandemic, using interaction platforms and working autonomously.

SimplyCast — *Halifax, NS*

Junior Developer — *Jan 2021 – April 2021*
- Debugged SimplyCast application to find and solve bugs to improve system stability.
- Used JavaScript/PHP (AngularJS) to refactor out of date or inefficient existing software.
- Used Phabricator integrated with Git for code review and bug tracking.
- Ran manual execution scripts for functionality in the dev environment of the software application.
- Collaborated with SimplyCast Content/Product team to redesign and implement front-end technology on the Customer-facing application.

Skills

Languages: Proficient in Java; Familiar with C, PHP, JavaScript, TypeScript, Python, P4, SQL
IDEs and Editors: Eclipse, Android Studio, Atom, Emacs, IntelliJ IDEA, Visual Studio
Dev Tools: AngularJS, CI with Jenkins, Wireshark Packet Analyzer, Postman API, Mininet, OVS, OpenFlow, Ryu, Scapy, Task Man. with Jira
Version Control: Git (GitLab, GitHub), Phabricator (With Arcanist), Subversion

Technical 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)

References

Will provide upon request.,