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Education

Dalhousie University

Halifax, NS, Canada

BACHELORS OF COMPUTER SCIENCE - SPECIALIZATION: COMMUNICATIONS AND CYBER SECURITY

Sep.2017 - May.2022

Work Experience _____

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.
- Collaborated with SimplyCast Product team to redesign and implement front-end technology on the Customer-facing application.

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.
- 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.
- Learned how to write clear technical documentation for a new application, Katalon Studio, that was introduced to the ASD Application Division.

Skills _____

Languages: Proficient in Java; Familiar with C, C#, PHP, JavaScript, TypeScript, Python, SQL, PostgreSQL Dev.Tools: Angular, React, NodeJS, Docker, Jenkins, Github Actions, Heroku Cloud, Heroku Postgres, Postman

Ver.Control: Git, SVN

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 POSTGRESQL 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).

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