



Zouhir Bensmaia

Ottawa, Ontario, Canada

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Skills

LANGUAGES: HTML - CSS - JavaScript - Java - MATLAB

Frameworks and Technologies: Node.JS - Web API Programming - UNIX - Git & GitHub - Angular - React - HostGator

Experience

Natural Sciences and Engineering Research Council of Canada (NSERC) / Research Assistant
MAY 2017 - AUGUST 2017, GATINEAU

Data collection and manipulation to operate research and compute three dimensional plots and graphs for academic research analysis. The software Matlab was used to conduct mathematical computations in native programming languages. Machine learning and neural network software was used to conduct predictions using complexe algorithms and machine learning testing, training and validation techniques. Academic papers were produced and presented. The research was graded by professors as have been achieved!

Walmart Canada / Photo Laboratory Technician
JANUARY 2020 - CURRENTLY, GATINEAU

Education

University of Quebec in Hull / Bachelor's of Science In Electrical Engineering
SEPTEMBRE 2016 - SEPTEMBRE 2019, LOCATION

Personal Projects

Automaton Robot / JavaScript
NOVEMBER 2020

This computer program creates a Robot state with embedded parcels to be delivered on a graph. The robot delivers the parcels automatically and autonomously. Four different types of computed routes methodologies were programmed and compared. Directional memory and smart algorithmic optimisations were implemented within the Mail route robot, Goal oriented robot and the best path robot ie: "Lazy robot".

Counting Scripts from text / JavaScript
OCTOBRE 2020

This code calculates the percentages of presence of script names within a string. This project made me extremely familiar with higher order functions. I used several functions to iterate through each string character, determine what script name it corresponds to from its ranges property, count the occurrence of each script type with the iteration process through the string, calculate the percentages of each script name within the string! The code uses a source of data that has an array of objects data structure.

A Correlations coefficient calculator / JavaScript
OCTOBRE 2020

This algorithmic calculator uses an array object with two properties each. One of the properties being an array of strings paired with the second one being a boolean value. Given a data set with a tremendous amount of objects placed as elements within an array the process of calculation manually the correlation between the presence of a specific String with the boolean value would be nearly impossible. Therefore, the program I wrote automates the calculations by providing 2 values to a function. The first value is the String and the second is the boolean. The algorithm calculates the correlation coefficient ϕ between the two.

All projects and more Available on GitHub: <https://github.com/ZouhirBensm>