Ines Bosch-Alfonso

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Education

University of Toronto / *Expected graduation: April 2022*

BASc in Computer Engineering, Minor in Artificial Intelligence Engineering, Certificate in Engineering Leadership

Relevant Courses: Introduction to Programming, Data Structures & Algorithms, Software Design & Communication, Engineering Design I & II, Computer Organization, Introduction to Databases, Computer Networks I

Skills

- Proficient knowledge of **Python**, **C**, **C++**, **HTML**, **CSS**, **JavaScript**, and **PostgreSQL**
- Skilled in **scikit-learn**, **NumPy**, **matplotlib** Python libraries
- Experienced in **Angular**, **React**, **GatsbyJS**, and **Node.js** frameworks
- Great understanding of **Git** version-control system and unit testing
- Native fluency in **English**, and **Spanish** and working level proficiency **French**

Professional Experience

Web Development Assistant / *Ontario Public Service, May 2020 – August 2020*

- Worked as a full-stack web developer in an **agile** scrum team which collaborated via **Azure DevOps** with pull requests, code reviews, daily stand-up meetings, and biweekly sprints
- Developed a responsive **GatsbyJS** web application for a cloud documentation repository
- Debugged an existing **Angular** internal costing calculator web application and improved the user interface by implementing **Material UI**
- Improved the local development experience by developing a mock API service to allow the team to continue working effectively in their local environment

Projects

Geographic Information System (GIS), *January 2020 – April 2020*

- Worked in a team with 2 colleagues to implement a GIS software program in **C++** capable of solving distance minimization problems via computational algorithms such as Dijkstra's algorithm
- Coordinated with team via our local Git repository and managed team meetings by enforcing team values and logging progress
- Utilized an open-source API which extracted data from OpenStreetMaps (OSM) database

Iris Species Classifier, *August 2020 – September 2020*

- Analyzed and classified the classic iris dataset using **Python** and various machine learning libraries
- Trained, tested, and evaluated a k-nearest neighbour classifier and a decision tree classifier using **scikit-learn** and **matplotlib**
- Created, trained and tested a 2-layer deep neural network (NN) using **Python** and **NumPy**
- Improved the test performance of the NN by applying L2 regularization

Frizz Quiz Website, *May 2020*

- Created a website using **HTML**, **CSS**, and **JavaScript** to determine whether a user's hair will be frizzy at the time of the quiz and then recommend products based on the weather and the user's quiz input
- Utilized OpenWeather API to determine current humidity levels of the city indicated by the user