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 Computer Programming, Data Structures & Algorithms, Software Design & Communication, Engineering Design, Computer Organization, Introduction to Databases, Computer Networks

Relevant Certifications: Introduction to Software Product Management, Neural Networks & Deep Learning, Structuring Machine Learning Projects

Skills

- Proficient knowledge of **Python**, **C/C++**, **HTML**, **CSS**, **JavaScript**, and **SQL**
- Skilled in **scikit-learn**, **NumPy**, **matplotlib** libraries
- Experienced in **Angular**, **React**, **GatsbyJS**, and **Node.js** front-end and back-end web development technologies
- Great understanding of **Git** version-control system
- Adept in responsive and accessible **UI/UX design**
- Native fluency in **English**, and **Spanish** and working level proficiency **French**

Professional Experience

Full-Stack Web Developer Intern / *Ontario Public Service, May 2020 – August 2020*

- Worked in an **Agile** scrum team which collaborated daily via **Azure DevOps** with meetings and code reviews in a fast pace
- Solved documentation management deficit by developing 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**, resulting in **100% Accessibility for Ontarians with Disabilities Act (AODA) compliance**
- Improved development experience by creating a mock API service to fetch data from local JSON files

Projects

Paradise Papers Analysis, *September 2020 - Present*

- Working with a partner on the analysis of the Paradise Papers data leak of 2017 by developing a relational database using **PostgreSQL** and the International Consortium of Investigative Journalists (ICIJ) Paradise Papers dataset
- Currently defining design patterns, table schemas, and investigative questions, followed by data cleansing
- Investigating the consequences of offshore investments, as well as deriving meaningful interpretations through the analytical manipulation of data which will be communicated in the form of a final presentation

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,** followed by the development of a 2-layer deep neural network (NN) using **Python** and **NumPy**

Frizz Quiz Web Application, *May 2020 – October 2020*

- Created a mobile responsive desktop application using **React**, **Node.js** and **Material UI** which determines whether a user's hair will be frizzy at the current time via OpenWeatherMap API and recommends products through an external website

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

- Tasked with coding and debugging a GIS software program in **C++** capable of solving distance minimization problems via computational algorithms such as Dijkstra's algorithm in a team of 3 on a Linux system
- Optimized code by implementing multithreading, resulting in a **25% performance improvement**
- Managed to multi-task teamwork by defining goals, setting internal deadlines, and logging team meetings
- Communicated software engineering milestones through writing reports and presentations