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| **Tiago**  **Ferreira**  **Software Engineer** | Address: 48 Geddes St.  Phone: 905-392-5943  Email: t.ferreira@live.ca  Website: [www.tiagoferreira.ca](http://www.tiagoferreira.ca)  linkedin.com/in/tiago-ferreira-2b1812162/  GitHub: https://github.com/TiagoF99 |

**Experience**

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| **Software development engineer intern - Publicis Sapient** | | | Jun. 2019 - Present |

* Coded scripts in **Python** to scrape competitor data and trained **machine learning** models using **time series algorithms** like **ARIMA**, popular python libraries (**Pandas, Statsmodels, SciPy**), and APIs (**TensorFlow**). **Forecasted** competitor product prices, **increasing product revenue**.
* Followed **dev-op** methodologies and was a part of **Agile** development; Presented data, accessed through **SQL** databases queried through **Python,** to team supervisors using popular **data visualization** libraries like **matplotlib, seaborn,** and **plotly**. Used **Git** for code collaboration.

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| **Software Developer - University of toronto** | Dec. 2018 - Present |

* Designed and developed an online platform for the UofT Pre-Pharmacy club. **Successfully managed client needs** while still meeting the **two** **week** **timeline**. The website was engineered using **HTML**, **CSS**, **JavaScript**, **Bootstrap,** and **Vue.js** for front end development and **MVC** design.
* **Optimized** bounce rate by **40%**, by regularly updating the website and analyzing data provided by **Google Analytics** using inferential statistical techniques, to improve content and user experience. **Reported** the **research** findings to the client, **increasing client satisfaction**.

**Education**

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**Honours bachelor of science - DOuble major in computer science and statistics, minor in mathematics**

**University of Toronto – St. George** – April. 2021 (Expected)

Course Work: **Data Structures and Analysis**, Databases, Software Design, Intro to Machine Learning, Software Tools and Systems Programming.

IMB Data science professional certificate – IMB, [www.coursera.com](http://www.coursera.com)

Building a fullstack app with angular 2+ and spring boot – www.lynda.com

HTML, CSS, and javascript for web developers – John Hopkins University, [www.coursera.com](http://www.coursera.com)

**Projects**

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| **ReelML** | | 2019 | |

* **Led a team** of student developers and trained **machine learning models** with a **97%** accuracy using (**Pandas, NumPy, SciPy**) on an IMDB dataset, to classify movies based on multiple factors, employing the **KNN** and **regression** algorithms. Developed a frontend using **HTML**/**CSS**, **JavaScript**, and **Bootstrap**. Developed a **Flask** app, connecting it to the frontend using the **Fetch API**. Used **Git** for code collaboration.

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| **Angleo** – Conuhacks | 2019 |

* Developed a platform to aid Anglophones in Quebec in a **24 hour** timeframe. Coded **Python** scripts to process data from **API’s** and turn it into **JSON**. Delivered this Data to and from a **MongoDB** (**NoSQL**) database using **REST API** through **Express.js** and **Node.js**.
* Developed a dashboard, while **modelling** and **analyzing** the data, for government insight. Used **HTML**, **CSS**, and **JavaScript** for the frontend. Used **plot.ly** and **Google API’s** for the **data visualization**. Hosted these services on **GCP**. **Git** was used for code collaboration.

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| **Linkup** – Ruhacks | 2019 |

* **Led** a team of developers in engineering an **android** platform to connect users through events. Used **Java** through **Android Studio** for the backend, an **SQLite** database for storage, and **Google Maps API** for event input. Taught the team **Git**, **increasing** team **efficiency** by **100%**.

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| **Autobot** | 2019 |

* Developed a contextualized chat bot by employing the **KNN** algorithm on click-stream data for Jeep.com, with a projected user flow improvement of **25%**. Used **Dask** through **Python** scripts, for scalability, on a dataset of **2+ Million** rows. Deployed model on AWS’ **EC2**.

**Skills**

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| * Languages: Python, Java, HTML/CSS, JavaScript, SQL, LaTeX | * Tools: Git, AWS, GCP, TensorFlow, JSON |
| * Frameworks: Bootstrap, Flask, Angular, Node.js, Express.js, Spring boot, Vue.js | * Analytics: Pandas, Dask, NumPy, Scikit-learn |