

TIAGO FERREIRA

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SOFTWARE EXPERIENCE

RESEARCH ASSISTANT – UNIVERSITY OF TORONTO

SEPT. 2019 – FEB. 2020 (EXPECTED)

- Researched economic impact of knowledge transfer by applying data mining techniques on textual sources using **NLTK**
- Improved database accessibility by producing documentation and optimizing data query code on Big Data using **Elasticsearch**
- Visualized data to aid in the presentation of the findings to academic and policy makers using **d3.js** and **seaborn**

SOFTWARE DEVELOPMENT ENGINEER INTERN – PUBLICIS SAPIENT

JUN. 2019 – AUG. 2019

- Increased product **revenue** by scraping competitor data to forecast product prices using NoSQL, time series algorithms (**ARIMA**), & open source Python libraries (**Statsmodels** & **Selenium**)
- Developed a language toggle and did front-end testing using **AngularJS** for \$5 billion + banking client, in **agile** environment
- Exploited Natural Language Processing to Engineer a contextualized chat bot by leveraging **Dialogflow** & **Dask** on a dataset of 2+ Million rows. Developed for a major car brand website, projected time of user flow improvement of 25%

LEAD SOFTWARE DEVELOPER – UNIVERSITY OF TORONTO PRE-PHARMACY CLUB

DEC. 2018 – PRESENT

- Designed and developed an online platform for **500+** students using **Bootstrap** & **Vue.js**
- Optimized bounce rate by **40%**, by improving information architecture through regularly updating content
- Analyzed data on **Google Analytics** using inferential statistical techniques and reported research findings to the client

EDUCATION

HONOURS BACHELOR OF SCIENCE – UNIVERSITY OF TORONTO, ST. GEORGE

APRIL. 2021 (EXPECTED)

DOUBLE MAJOR IN COMPUTER SCIENCE AND STATISTICS, MINOR IN MATHEMATICS

Current Course Work: Data Structures and Analysis, Databases, Software Design, Intro to Machine Learning, Data Analysis

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE – IBM, WWW.COURSERA.COM

JULY. 2019 – SEPT. 2019

PROJECTS

REELML – WWW.GITHUB.COM/TIAGOF99/REELML

- Classified movie genres on 13 variables, with 89% accuracy, using machine learning algorithms (**KNN**), **Pandas**, & **Scikit-learn**
- Utilized **Tensorflow** and **keras** to build a neural network to detect effect of movie titles on critic scores
- Built GUI for automated data processing using **Flask** & **Fetch API**

ANGLEO (CONUHACKS) – WWW.GITHUB.COM/TIAGOF99/ANGLEO

- Developed platform to aid Anglophones in Quebec using **NoSQL**, **REST API**, **Express.js**, **Node.js**, & **Git**
- Analysed collected data to engineer online dashboard for government insight using **HTML/CSS**, **JavaScript**, **plot.ly**, & **GCP**

LINKUP (RUHACKS) – WWW.GITHUB.COM/TIAGOF99/LINKUP

- Led team of 4 students in engineering an **android** platform to connect users through events using **Java**, **SQLite**, & **GCP**
- Taught the team **Git**, increasing team efficiency by **100%**

FIREBALL – WWW.GITHUB.COM/TIAGOF99/FIREBALL

- Developed a video game where users attempt to dodge certain objects to survive the longest using **Python** & **PyGame**
- Incorporated an AI computer with a brute-force algorithm and multiple difficulties

SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL, Java, R, MATLAB
Analysis: Pandas, Dask, NumPy, SciPy, seaborn, Keras, Elasticsearch

Tools: Git, GCP, Tensorflow, Adobe Cloud Debugger
Frameworks: Bootstrap, Flask, AngularJS, Node.js, Vue.js

