

# TIAGO FERREIRA

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## SOFTWARE EXPERIENCE

### RESEARCH ASSISTANT – UNIVERSITY OF TORONTO

SEPT. 2019 – FEB. 2020 (EXPECTED)

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

### SOFTWARE DEVELOPMENT ENGINEER INTERN – PUBLICIS SAPIENT

JUN. 2019 – AUG. 2019

- Increased product **revenue** by scraping data forecast competitor product prices using **NoSQL**, time series algorithms (**ARIMA**), & open source Python libraries (**Statsmodels** & **Selenium**)
- Became familiar with large code base in < 1 week, integrated a language toggle service with pre-existing components and did front-end testing using **AngularJS** for \$5 billion + banking client, in **agile** environment
- Reached out to supervisor for weekly code reviews and learning sessions to learn Industry standards and software tools

### 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

MAJOR GPA: 3.8/4.0

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 so users could visualize predicted input and model accuracy 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**, **PostgreSQL**, & **GCP**
- Taught team members **Git** in < 1 hour, which lead to an 100% increase in efficiency and productivity

### AUTOBOT

- Exploited Natural Language Processing to Engineer a chat bot by using **Dialogflow** & **Dask** on a dataset of 2+ Million rows
- Developed for a major car brand site with a projected time of user flow improvement of 25%, pitched on a **React** & **Flask** base

### FIREBALL – WWW.GITHUB.COM/TIAGOF99/FIREBALL

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

## SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL, Java, R, MATLAB, C

Analysis: Pandas, NumPy, Scikit-learn, Dask, Seaborn, Keras, Elasticsearch

Tools: Git, GCP, AWS, Tensorflow, Adobe Cloud Debugger

Frameworks: Bootstrap, Flask, AngularJS, Node.js, Vue.js

