

TIAGO FERREIRA

Phone: 905-392-5943
Email: t.ferreira@mail.utoronto.ca
Website: www.tiagoferreira.ca
LinkedIn: www.linkedin.com/in/tiagof99
GitHub: www.github.com/TiagoF99

SOFTWARE EXPERIENCE

RESEARCH ASSISTANT – UNIVERSITY OF TORONTO

SEPT. 2019 – FEB. 2020 (EXPECTED)

- Use data mining techniques on textual sources of 22 GB + and increase script efficiency by managing Python memory usage using **lxml**, **Pandas**, & **re**
- Improve database accessibility by producing documentation and optimizing 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 conducting time series forecasting, using the Sarima model, on scraped competitor product data using **PyMongo**, **Statsmodels**, & **BeautifulSoup**
- Became familiar with large code base in < 1 week, integrated a language toggle service with pre-existing components and did front-end testing on **AngularJS** & **Spring boot** architecture for \$5 billion + banking client, in **agile** environment

LEAD SOFTWARE DEVELOPER – UNIVERSITY OF TORONTO PRE-PHARMACY CLUB

DEC. 2018 – PRESENT

- Solely managed client expectations to develop online platform for 500+ students in 1-week time frame using **Bootstrap**
- Optimized bounce rate by **40%** by improving information architecture through A/B testing using Google Analytics

EDUCATION

HBSC. SPECIALIST IN COMPUTER SCIENCE – UNIVERSITY OF TORONTO, ST. GEORGE

EXPECTED APRIL. 2021

- Double Minor in Statistics & Mathematics, **Major GPA: 3.8/4.0**
- Data Structures, Databases, Software Design, Intro to ML, Systems Programming, Intro to Software Engineering

HTML, CSS, AND JAVASCRIPT FOR WEB DEVELOPERS – THE JOHNS HOPKINS UNIVERSITY, WWW.COURSERA.COM

PROJECTS

REELML – WWW.GITHUB.COM/TIAGOF99/REELML

- Classified movie genres with 13 variables on KNN model, with 89% accuracy, using **Pandas** & **Scikit-learn**
- Utilized **Tensorflow** & **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 predictions, using **Flask** & **Fetch API**

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

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

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

- Led 3 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 data of 2+ Million rows
- Developed for car brand website with a projected user flow time improvement of 25%, pitched on **React** & **Flask** base

SKILLS

- **Languages:** Python, Java, HTML/CSS, JavaScript, SQL, R, C, MATLAB
- **Tools:** Git, Elasticsearch, Tensorflow, Docker, Kubernetes, Linux, GCP, AWS
- **Frameworks/Libraries:** Bootstrap, Flask, Fetch, AngularJS, Spring boot, Keras, React, Node.js, Express.js, Vue.js

