TIAGO
FERREIRA

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SOFTWARE EXPERIENCE

RESEARCH ASSISTANT – UNIVERSITY OF TORONTO   SEPT. 2019 – FEB. 2020 (EXPECTED)
- Use data mining techniques on textual sources of 1.5 + GB and increase script efficiency by managing Python memory usage using **lxml**, **Pandas**, & **re**
- 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** & **BeautifulSoup**)
- 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 updating content and conducting A/B testing
- 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
- Data Structures, Databases, Software Design, Intro to Machine Learning, Systems Programming, Intro to Software Engineering

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

SPRINGBOOKING – WWW.GITHUB.COM/TIAGOF99/SPRINGBOOKING
- Constructed an online hotel reservation platform using an **AngularJS** & **Java Spring boot** architecture

SKILLS
- **Languages**: Python, Java, HTML/CSS, JavaScript, SQL, R, MATLAB, C, TypeScript
- **Tools**: Git, Elasticsearch, Tensorflow, Docker, Kubernetes, Linux, Adobe Cloud Debugger, Google Cloud, AWS, JupyterLab
- **Frameworks/Libraries**: Pandas, NumPy, Bootstrap, Flask, AngularJS, Fetch, Scikit-learn, Dask, Keras, Seaborn, Node.js, Vue.js