

TIAGO FERREIRA

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SOFTWARE EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER INTERN - PUBLICIS SAPIENT

JUN. 2019 - PRESENT

- Coded scripts to scrape competitor data and train machine learning models to forecast competitor product prices, increasing product **revenue**. Used time series algorithms like **ARIMA** and open source **python** libraries like **Pandas**, **Statsmodels**, **SciPy**
- Followed DevOps methodologies and was a part of **Agile** development
- Presented data from **SQL** databases to team supervisors using data visualization libraries like **matplotlib**, **seaborn**, and **plotly**

SOFTWARE DEVELOPER - UNIVERSITY OF TORONTO PRE-PHARMACY CLUB

DEC. 2018 - PRESENT

- Designed and developed an online platform for **500+** students using **HTML/CSS**, **JavaScript**, **Bootstrap**, and **Vue.js**
- Optimized bounce rate by **40%**, by regularly updating and managing the website, and improved content and user experience
- Analyzed data on **Google Analytics** using inferential statistical techniques and reported the 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

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

Online Course Work:

- **IMB DATA SCIENCE PROFESSIONAL CERTIFICATE** – IMB, 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

PROJECTS

REELML – [HTTPS://GITHUB.COM/TIAGOF99/REELML](https://github.com/tiagof99/reelml)

- **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, deploying algorithms like **SVM**
- Developed a **Flask** application, connecting it to the frontend using the **Fetch API**

ANGLEO (CONUHACKS) – [HTTPS://GITHUB.COM/TIAGOF99/ANGLEO](https://github.com/tiagof99/angleo)

- Developed a platform to aid Anglophones in Quebec using **Python**, **MongoDB (NoSQL)**, **REST API**, **Express.js**, **Node.js**, and **Git**
- Developed a dashboard for government insight using **HTML/CSS** and **JavaScript**. Modelled and analyzed the data, presenting it using **plot.ly** and **Google API's**. Hosted these services on **GCP**

LINKUP (RUHACKS) – [HTTPS://GITHUB.COM/TIAGOF99/LINKUP](https://github.com/tiagof99/linkup)

- **Led** a team in engineering an **android** platform to connect users through events using **Java**, **SQLite**, and **Google Maps API**
- Taught the team **Git**, increasing team efficiency by **100%**

AUTOBOT – [HTTPS://GITHUB.COM/TIAGOF99/AUTOBOT](https://github.com/tiagof99/autobot)

- Developed a contextualized chat bot by employing the **KNN** algorithm on a dataset of **2+ Million** rows, for Jeep.com
- Projected user flow to improve by **25%**. Used **Dask** through **Python** scripts for data processing

SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, SQL, LaTeX

Frameworks: Bootstrap, Flask, Angular, Node.js, Express.js, Spring boot, Vue.js

Tools: Git, AWS, GCP, TensorFlow, JSON

Analytics: Pandas, Dask, NumPy, SciPy, seaborn

