

# Alessandra Araujo

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Portfolio: <https://alefaraujo-ca.github.io/> | <https://www.linkedin.com/in/alefaraujo/>

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## Summary

- **Software Engineer** with experience working at financial institutions and software house.
- **Bachelor's Degree in Computer Science.**
- Excellent programming skills, experience with analysis, development, code, debug and test computer programs for straightforward assignments.
- Knowledge of machine learning algorithms such as K-Means, Linear Regression, Logistic Regression, SVM.
- Pro-active team player, skilled in working with **Agile Development Team** to deliver high-quality solutions and test-driven development.
- Passion for **continuous learning** in order to keep up to date on current technology trends as well as the ability to learn quickly and apply new skills in the market.

## Technical Skills

- Experience with relational databases: **SQL Server, Oracle**, Cassandra.
- Programming experience with **SQL, Python, C#, XML, JSON, HTML, JavaScript**, Flask, Bootstrap.
- Knowledge of BeautifulSoup, Requests, **Numpy**, Matplotlib and **Pandas** python libraries during development lifecycle.
- Experience with cleaning, transforming, merging and reshaping data frames.

## Projects

### NBA ELT Project

[https://github.com/alefaraujo-ca/BootCamp\\_Protects/tree/master/Protects/01.ETL](https://github.com/alefaraujo-ca/BootCamp_Protects/tree/master/Protects/01.ETL)

This project collects data about NBA teams and players from different sources, such as csv files, NBA API's and web scraping. Transforms the information and stores into a designed database structure.

#### Responsibilities:

- Created the data model (ERD) and tables at PostgreSQL.
- Developed the scripts to extract data using NBA API's and load the data into the database.
- Developed the script to scrape the statics from NBA's web page.

**Used:** Python, BeautifulSoup, Pandas, Splinter, PostgreSQL, SQLAlchemy

### COVID-19 Project

[https://github.com/alefaraujo-ca/BootCamp\\_Protects/tree/master/Protects/03.COVID-19](https://github.com/alefaraujo-ca/BootCamp_Protects/tree/master/Protects/03.COVID-19)

This project collects data from COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at John Hopkins University and creates a dashboard to display the number of confirmed cases and deaths around the world.

#### Responsibilities:

- Developed the scripts to collect, clean and transform the data.
- Created a dashboard to display cumulative and daily confirmed cases and deaths.
- Developed bar chart race with numbers of deaths.

**Used:** Python, Tableau, Pandas, Matplotlib, Plot.ly, Requests, JSON

## Experience

### Software Developer

Adastra Corporation, Toronto, ON

Oct 2019 – Mar 2020

- Created new features and enhance automated tools that **transform**, and **processed** data required to upload into OpTrust's compliance monitoring software, using **VBA, Python, XML**.
- Developed Python scripts to clean, transform and generate data to feed the process.
- Ran assigned test cases for each data flow process.

### Software Developer/Engineer

ITAU BANK, São Paulo, BR

June 2007 – July 2019

- Acted as a liaison between Legal department and **Capital Markets** functional business units and IT. Interacted with end users, business analysts and stakeholders to gather and document requirements, conducted technical design, development, and integration of multi-platform application systems.
- Developed **applications** for Capital Markets and Data Analytics department, using **SQL, .NET C#, HTML, CSS, Javascript, JSON, XML**.
- Developed **API services** to integrate data among cross-functional application systems using Visual Studio **C# .NET**, XML, JSON, XSLT and SQL Server as database.
- Created **dashboards** to show KPI Indicators using **Tableau**, Excel and VBA programming language.
- Worked with architects and software engineers to implement data strategies, build data flows, and develop conceptual/logical/physical **data models** across relational, **dimensional**, and NoSQL data platforms (SQL Server, DB2, Oracle, Cassandra).
- Developed complex **SQL queries** and stored procedures, functions and triggers using **Oracle PL/SQL**.
- Performed as a Team Member on an **agile** team focused on software delivery and support. Participated in sprint planning, daily scrums, testing, retrospectives and sprint reviews.
- Provided support for applications, maintenance and enhancement.

## Education

### Bootcamp Certificate in Data Analytics, 2020

University of Toronto, Toronto, ON

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

### Certificate in Machine Learning with Python, 2019

Museum and School of Applied Mathematics (PRANDIANO), São Paulo, BR

A 6-week program to implement machine learning algorithms such as K-Means, Radial Basis Function, Vector Support Machine.

### Post Graduate Diploma in Database Technology

State University of Ceará (UECE), Brazil

### Bachelor's in Computer Science

University of Fortaleza (UNIFOR), Brazil