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(321)745-9434

Melbourne FL

# Sirron Melville

[LinkedIn](#)

[GitHub](#)

[Personal Website](#)

Data science driven systems analyst with a business background. Experience streamlining business processes, uncovering patterns and trends through machine learning and using data analytics to communicate insights that aid in decision making.

## EDUCATION

UDACITY Data Scientist Nanodegree

Sept. 2017

FLORIDA INSTITUTE OF TECHNOLOGY - B.Sc. Computer Science & Business(Management & Finance)

Melbourne, FL | Fall 2016

Concentration: Systems Analysis & Design, Machine Learning Minor: MIS, AIS

## SKILLS AND COURSEWORK

**Programming Languages:** Python, SQL, C++, R, Java, JavaScript, Html, CSS, D3, MEAN Stack, Visual Basic, Bash.

**Software:** OSX, Linux (Ubuntu), Microsoft Access 2016, Microsoft Project 2016, iWork 2016, Windows, Microsoft Power BI, Tableau.

**Tools:** Git/GitHub, Jupyter Notebook, Latex, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, SAP ERP Software, Salesforce, SharePoint.

**Coursework:** Applied Discrete Mathematics, Data Analysis, Machine Learning, Computer Vision, Neural Networks, Numerical Methods for Data Analytics, Management Information Systems, Multivariable Calculus, Networks and Operating Systems, Network Theory & Design, Statistics, Systems Analysis & Design.

## PROJECTS

### Enron Fraud Detection

Sept. 2017

- Built an algorithm to identify fraudulent employees based on the Enron Corpus.
- Tested and tuned three algorithms (Gaussian NB, k-NN and Random Forest), selected the Gaussian NB classifier which was more successful in determining Persons of Interest. (scikit-learn)

### Analysis of the Financial Contributions to the 2016 Presidential Campaigns in Massachusetts

Aug. 2017

- Conducted an EDA on a dataset provided by the FEC for Financial Contributions to the Presidential Campaigns in MA.
- Explored the variables, structure, patterns, oddities, and underlying relationships of the dataset and communicated some interesting findings. (R)

### Wrangle OpenStreetMap Data

Aug. 2017

- Chose the region of Boston, MA in OpenStreetMap data, thoroughly audited and cleaned the dataset, converted it from XML to CSV format, then imported the cleaned .csv files into an SQL database using a schema.
- Queried the database to explore and answer questions about the city of Boston, MA. (Python, SQL)

### Music Festival App using Salesforce

- Created complex data models using relationships and visualized them using schemas and created reports, charts and dashboards to visualize the data.
- Used workflow and approvals to automate manual tasks, sending an email, updating fields and creating user tasks.

### Automation of the Business Processes in the Flight Operations Department at Embraer

- Reconciled invoices with our records, imported the data into SAP after data wrangling. Created purchase requisitions and purchase orders. Created approval request workflows using a linked SharePoint list.
- Performed data analysis on various SharePoint lists and produced visualizations and reports which provided valuable insights that aided in management decisions.

## WORK EXPERIENCE

### Smooth Running - Event Coordinator

Melbourne, FL | Spring 2015 - Present

- Currently overseeing groups of 4-5 members while setting up 26.1 mile marathons, cycling and surf events with up to 2500 participants.
- Developed more efficient ways to stock hydration stops and reduced inventory costs by 30%.

### Embraer – Technical Business Analyst

- Automation of the business processes in the Flight Operations department using SAP and Sharepoint.
- Data analysis of large datasets to produce insightful visualizations and reports.

## HONORS AND ACCOMPLISHMENTS

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|--|---|
| • Dean's List College of Science                                       | • Trinidad and Tobago National Golf Team 2003-2009(Captain)     |
| • International School of Port-of-Spain Model United Nations Club 2008 | • Trinidad and Tobago Stephen Ames Cup Squad 2005-2009(Captain) |

## AFFILIATIONS

- |   |  |
|---|--|
| • TTGA (Trinidad and Tobago Golf Association)     | • NSBE (National Society for Black Engineers)                          |
| • Queen's Royal College Scouts                    | • Florida Institute of Technology CSA(Caribbean Students' Association) |
| • The Scouting Association of Trinidad and Tobago |  |