

# Emanuel A. Calderon

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## SUMMARY

Motivated/Managerial professional experienced in Software Eng., Data Analytics, Data Eng., Statistical Process Control, and Project Management with desire to provide metric driven solutions, automation, and continuous improvement initiatives.

## SPECIALIZED SKILLS

PySpark, Python, Scala, Java, SQL, R, HTML, CSS, JavaScript, Snowflake, Neo4j, AWS Cloud, Terraform, Jenkins, Poetry, Docker, StreamLit, DBT, Linux, Shell, Hadoop, Data Structures, Algorithms, JMP, Minitab, IDE's, Qualtrics, Teamcenter, NX, Ansys, SAP, Green Belt, Spanish

## EXPERIENCE

### TRAVELERS INSURANCE, Hartford, CT

January 2022 – Present

#### Management, People Analytics Cloud/Data Engineer

June 2023 – Present

- Awarded this leadership responsibility due to technical capability supplemented with mentoring/leadership, to both manage direct reports of Software/Data Eng. discipline for infrastructure creation as well lead Data Engineer efforts.
- Manage team on infrastructure creation, tech stack applications, code quality/security, leadership development and team success.
- As Security Champion, provide best security compliance practices according to Travelers and Cyber Software best practices.

#### People Analytics Cloud/Data Engineer

January 2022 – June 2023

- Play a key role in growing/transforming current analytics landscape to cloud-based data management system, utilizing interconnected tools (AWS, Jenkins, Spark, Terraform, Python, etc..) providing methods to analyze for utilization.
- Design, build and deploy data solutions that ETL data to support AI, machine learning and business intelligence.
- Optimize and create pipelines reducing runtime, security risks, redundancy, costs and repetition while increasing code quality.

#### Key Accomplishments:

AWS Cloud Practitioner Certified and built machine learning pipes from on-premise/3<sup>rd</sup> Party to Snowflake with AWS Cloud.

### RAYTHEON TECHNOLOGIES – PRATT & WHITNEY, East Hartford, CT

May 2016 – December 2022

#### Project Lead / Data Analyst

December 2020 – December 2022

- Created role to both promote organizational success across multifunctional teams and create data pipelines/projects while leading groups to task closures on stop delivery orders and new process implementations.
- Led Green Belt project for F100 component, eliminating \$6,319/part of accrued scrap dollars via Statistical Process Control.
- Utilized incoming data using Minitab/Python/Pandas to optimize internal systems and suggest new data pipelines.
- Led Statistical Process Control “Accept As Is” Reduction Campaign to eliminate ~\$1M/yr of accruals.

#### Engineering to Manufacturing (E2M) Engineer & Lead

April 2019 – December 2020

- Managed a program of 7 participants to provide data driven solutions for business units, led organizations leadership of intent, after-action reviews, website development and Executive Level report outs.
- Governed Manufacturing Corrective Action Board reviews gathering cross-functional data to suggest metric driven projects.
- Earned Green Belt as Statistical Process Control project lead, to cut >\$100k/yr of rework costs by metric driven solutions.

#### Key Accomplishments:

Eagle award (\$1K) & Green Belt for six sigma data-driven project, remain advisory board member to program.

#### Design / Structures / Project Engineer

May 2016 – April 2019

- Drive team of cross-functional disciplines through technical related support, design/structural gate review, deployment of military/commercial fan/external/gear parts and root cause investigations to analyze (GOM/Ansys) integrity of components.
- Maintained Python/GOM script communication and optimized script function to reduce troubleshoot variation by 10%.

#### Key Accomplishments:

2x Eagle Award (\$1K) for exemplary leadership, initiative in root cause, and design/process results. Became PL3 status.

### FABCO AIR, Gainesville, FL

June 2015 – March 2016

#### Design / Web Developer / Programmer

- Led and managed formulation of parts/assembly's design in CAD Software for use on company live streaming web server.
- Improved various programming logic of company catalogue for customers using the company site.

## EDUCATION

**John Hopkins University, Baltimore MD** | Masters, Computer Sci. Cloud Computing

- GPA: 3.50/4.0

**University of Connecticut, Hartford CT** | MBA, Business Analytics

- GPA: 3.60/4.0

**University of Florida, Gainesville FL** | Bachelors, Mechanical Engineering

- GPA: 3.16/4.0

## RELEVANT PROJECTS

**JOHNS HOPKINS UNIVERSITY**, Computer Science Department, Baltimore, MD

January 2021 – May 2022

### **Programmer - Data Engineer / Developer**

- Developed back-end practical game applications using data structures methodology, including Pacman & Spider Solitaire.
- Created, verified, and optimized song database program using Java/Java FX GUI to satisfy both backend/frontend parameters.

**DATA SCIENCE INFINITY**, Data Science with Python, Remote

January 2023 – April 2023

### **Programmer - Data Engineer / Data Science**

- Create and deploy models including deep learning, supervised and unsupervised machine learning (ML).
- Awarded certificate of achievement and deployed Supervised ML model onto Streamlit App for public to see [LINK HERE](#).

**DATACAMP**, Data Engineer with Python, Remote

June 2021 – December 2021

### **Programmer - Data Engineer / Data Science**

- Proactive Extract, Transform & Loading data to databases including SQL/Cloud AWS through Airflow/Spark workflows.
- Automating job runs with Shell/Bash Shell scripting using Apache Airflow and Cron.

**UCONN**, Business Analytics Department, Storrs, CT

August 2019 – June 2020

### **Analytics - SQL / R / Hadoop / Big Data Modeling**

- Expanded knowledge base and analyzed various big data sources using Apache Hadoop with Google Cloud and AWS.
- Examined statistical models using R on various data pipelines to suggest organization improvements for communities.
- Led team to improve business internal systems, optimized using SQL logic to reduce tedious process time by 40%.
- Utilized JMP to investigate San Diego crime data patterns to predict & offer areas of improvement to SDPD.

## ADDITIONAL EXPERIENCE

**TRAVELERS INSURANCE**, Hartford, CT

January 2022 – Present

### **Hispanic/Latino & Allies Diversity Network**

- Led team of diverse corporate functions through Hispanic Heritage Month (HHM) utilizing similar practices in prior groups.
- Integrated company provided data capture tool to provide metrics for events and later use for future events.

#### Key Accomplishments:

Held first HHM event and awarded Corporate Leadership Award from Prospanica CT Chapter.

**RAYTHEON TECHNOLOGIES – PRATT & WHITNEY**, East Hartford, CT

June 2016 – December 2021

### **Hispanic Leadership Forum Continuous Improvement Lead**

- Led & improved communications platform through OneNote to streamline event notices and obtain live updates.
- Co-managed 15 team members to improve common practices and bring LatinX culture to business and community.

#### Key Accomplishments:

Became Latina Styles #1 US Hispanic ERG in the nation for continual efforts from 2018-2019. Through Puerto Rico Hurricane Relief efforts in 2018, awarded PW Leadership Through Disaster Award.

**BREWSTER CONDOMINIUM ASSOCIATION**, Glastonbury, CT

August 2018 – Present

### **Brewster Treasurer – Continuous Improvement Project**

- Represent 60-unit owners and lead with team of five to increase property value, reduce work input to output ratio and provide progressive decisions for functions of association.
- Created extract tool via python/pandas for metric driven decisions via visualizations of monthly unit metric reports.

#### Key Accomplishments:

Increased profit margins of 2bed 1bath unit owners by ~\$30k, increase participation of owners and all units occupied.