ABRAHAM VARGAS

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DATA ENGINEER

An accomplished, data science professional with expertise in utilizing Python, Spark, and cloud technologies to resolve big data issues. Specialize in data pipelines, task automation and integration, as well as implementing innovative technologies. Subject Matter Expert in Python programming and SQL languages. Ability to leverage software engineering best practices for statistical, ad-hoc projects. Cross-functional leader in challenging, fast-paced environments. Bilingual in English and Spanish.

Ready to impact organizations, "*Lead by Example*," and develop world-class technology solutions.

Amazon Web Service | Linux | Big Data Technologies | Team-Oriented | Computer Programming in Python | SQL | Quality Control/Quality Assurance | Project Management | Ad-Hoc Project Leadership | Workflow Improvements | Database Development | Data Science | Technical Writing & Proofreading | Emerging Technology | Media & TV Sector | Multi-language scripting | Training & Mentoring | Bilingual

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PROFESSIONAL OVERVIEW

THE NIELSEN COMPANY | OLDSMAR, FL

Data Science Analyst, Technical Lead, TV Analytics   Mar 2017 – Apr 2019

Served as the lead developer and created a Python package that automated QA/QC for both daily and monthly TV viewing data, as well as a Postgresql database that stored legacy data previously in flat file text and csv formats. General daily functions consisted of, investigating data quality issue for key stakeholders; developing new workflows utilizing Spark within a Databricks environment; and converting legacy code from SAS, R, and Bash scripts to Python. Furthermore, trained the Data Science team in advanced SQL topics and best practices such as, CTEs, unions, and virtual tables.

Key Accomplishments:

- ☐ Selected by key-decision makers to serve as the Point-of-Contact between the Engineering and Data Science TV analytics teams.
- ☐ Utilized Python expertise to make numerous presentations on PEP8 and PEP 257 standards, formal unit testing, Git integration, and IDE tools.
- ☐ Improved the QA process for Data Science teams from 15-days to less than 2-hours by developing a Python package that leveraged existing Spark engine and Hive data warehouse to automatically scan new data for any issues.
- ☐ Partnered with directors and other Data Science teams to create a Postgresql database and to determine what data required ongoing access; thereby writing Python scripts to automatically abstract data from the mainframe and UNIX servers and to transform into a structured format within less than 15-minutes verses taking 2 or more days.

Research Analyst, Mobile Measurement   Mar 2015 – Mar 2017

Promoted to the position to develop Python applications to enhance production initiatives and quality control functions. Primary duties included, auditing current SPSS code; researching fluctuations in trends; and translating new survey questions into Spanish. Likewise, proofread company-wide documentation.

Key Accomplishments:

- ☐ Created a Python script that read Excel documents and performed all business requirements and summarized any deficiencies, resulting in a simple, accurate script execution that took less than a minute verses 16-hours.
- ☐ Developed a multi-language script utilizing Python to read Excel sheets and to discern which records required further research, formatted summaries, and SPSS code for investigative purposes, concluding in the ability to generate Excel reports for trend breaks in less than a minute with no manual activities by analysts.

Bilingual Survey Writer   Mar 2014 – Mar 2015

Hired to create questions, both in English and Spanish, for online surveys that measured audience engagement in TV programming and the effectiveness of product placements.

Key Accomplishments:

☐ Designed and implemented a web-based application that used MySQL database to store survey data, which interfaced with a browser via PHP, and allowed writers to retrieve answer choices from past surveys within seconds.

EDUCATION

Bachelor of Arts, Statistics – Technical Writing |University of South Florida | Tampa, FL

Final Capstone Project: conducted a time series analysis of Linux-based OS usage, utilizing classical decomposition.

TECHNICAL EXPERTISE

Relational Databases	MySQL/MariaDB, Postgresql
Big Data	Spark, HiveSQL, Databricks, Amazon AWS (S3, EC2)
Reporting & Analytics	Tableau, Spotfire
Programming/Scripting	Python (object-oriented, procedural), Bash, R, SAS, SPSS
UNIX & LINUX Systems	Solaris UNIX, Debian/Ubuntu, CentOS/Fedora/Red Hat

MILITARY SERVICE

FLORIDA ARMY NATIONAL GUARD & US ARMY RESERVE | PINELLAS, FL

Combat Medic   Jan 2010 – Jan 2017

Oversee the medical readiness and well-being of 150 soldiers, in addition to 50 soldiers in both Iraq and the US, during frequent convoy operations.

Key Accomplishments:

☐ Served as a Combat Medic during *OPERATION IRAQI FREEDOM*.

LANGUAGES

- English – *Fluent*
- Spanish – *Fluent*