Mariana Ceballos

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Data Engineer

Innovative engineer with Big Data consulting, business operations, and senior analyst experience across public and private sectors.

Education

B.S. in Information Systems Technology-Software Engineering Concentration   May 2017- Current
Miami Dade College, Miami, FL

College Certificate in Enterprise Cloud Computing   May 2017-May 2020
Miami Dade College, Miami, FL
Linux, Networking, Cloud Computing, Database, Cloud Infrastructure, and Services

M.S. in Mechanical Engineering   August 2008- August 2011
Texas A&M University, College Station, TX
Thesis: Influence of salinous solutions in the pressure and volume modulations of the intracranial cavity
Applied concepts: design of experiments, numerical modeling simulating physical systems, and analyze data sets, with MATLAB

B.S. in Biomedical Engineering   January 2002- April 2007
Florida International University, Miami, FL
Senior design project: A novel oxygenation catheter assembly for the treatment of hypoxia
Applied concepts: mechanical design, design of experiments, and documentation (DMR, DHF, FMECA, and QFD)

Certifications

CompTIA Cloud Essentials+
AWS Cert Sol. Architect Associate
AWS Cert Cloud Practitioner

Relevant Skills

• Database	Mongo, Hadoop, MySQL, PeopleSoft
• Platforms	SQL Server, MongoDB, AWS, Hadoop, Solidworks
• OSs	Linux, Windows
• Mathematics	Ordinary DE, Partial DE, Calculus, Linear Algebra
• Microsoft	Word, Project, PowerPoint, Access
• Statistics	Hypothesis testing, DOE 2k, Regression, ANOVA & QC
• Software	Python, C, C++, MATLAB, SQL, JAVA, PHP, HTML, CSS, JavaScript (React)

Relevant Professional Experience

Senior Data Analyst   July 2017-Current
Miami Dade College Miami, Fl

- Serve as HRIS lead and primary department contact regarding data needs including reports (Python Jupyter notebooks), configurations (PeopleSoft Benefits), queries, macros (vba), and visualizations (power query).
- Create innovative solutions using databases and programming to automate the use of data in the department and facilitate the creation of reports for stakeholders (14K users).
- Produce high-profile presentations on behalf of the department.
- Prepare documents for mass distribution using Adobe Spark and Illustrator.
- Create, disseminate, and track surveys and rubrics using Qualtrics display logic.
- Designed a method to track transfer data to help evaluate student success.
- Combined Access VBA, SQL, Power BI, and Excel VBA to automate information uploads and optimize efficiency.
- Gather data for 2 successful grant applications (5 million each).

CAM Advisor
Oka Unlimited, Miami and Mexico   Jan 2016-July2017
- Apply analytical tools and knowledge to diverse scenarios including capital projects.
- Worked on software development projects related to web development and database design.
- Effective business leader who is capade of learning fast and delivering results even in tough scenarios.

*Operations Manager-**Consultant***   August 2015-Jan 2016
Pharmacy Depot, Houston, TX
- Configure, manage, and use pharmacy software
- Participated in the sale of the business, and preparation of reports for new owners.
- Trained employees on new policies, procedures, and technical updates.
- Oversaw daily business operations, including account management, Human Resources, insurance management, and payment processing. Reconciled payments and manage financial operations.
- Monitored, tracked, and reported KPI results to leadership.
- Evaluated staffing levels and identified gaps. Hired, onboarded, and trained personnel across functions.
- Prepared statistical reports for presentations to the principal investigator (PI).
- Produced and analyzed statistical and financial reporting to evaluate business needs and regulatory requirements.

*Big Data Programmer-**Consultant***
BBVA Bancomer, México, DF   October 2014-April 2015
- Contributed to a database system design based on multiple open-source technologies.
- Tested installations and migrations in Linux operating system.
- Installed single node and pseudo-distributed modes for Hadoop.
- Programmed Mongo for single-node installation.
- Created graphs and edited their code in D3, including Force Layout, Sankey, and Maps.
- Developed skills in analyzing requirements, planning tests, creating test cases and executing tests.

CAM Manager
Oka Unlimited, Miami, Fl   October 2011- September 2014
- Communications with residential owners and clients.
- Advise the board members on Florida Statutes.

Academic Based Experience
Research Assistant in 3 different institutions: August 2004- August 2011
- Mechanical Engineering- Texas A and M, Miami, FL
- Biomedical Engineering Department- University of California San Diego, San Diego,
- Applied Research Center (Florida International University), Miami, FL
    - Sample preparation and analysis with Matlab
    - Statistics: DOE, SAS