

Alejandro Bautista Ramos

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Experience

September 2021 - Current

AIM Consulting, Seattle, WA - Data Engineer

Data Engineer contractor for Alaska Airlines Group spearheading the A/B testing platform design for the E-Commerce team's goal of collecting and analyzing online consumer habits backed by real-time data to improve purchase conversions.

Project: Post Booking Experience

- Create a real-time dashboard for measuring the online customer experience in multiple airports nationwide from non-lobby check-ins, express check-ins, and self bag-drop.
- Design part of the Machine Learning pipeline to create the real time analytics platform using Data Lakes, Azure Event Hub, Azure Synapse and Azure Cosmos DB.
- Perform data transformations and construct pipelines to send data to BigQuery through DataFlow using Databricks/Azure Synapse.

Project: Data Platform Events Connector

- Responsible for building the main data platform to deliver Flight Revenue Booking metrics to Optimizely API dashboards that is currently being used by various departments within the company.
- Built the data platform in the Azure ecosystem as an ARM template connected to the Azure DevOps pipeline.
- Designed and deployed the data platform as a Data Factory that connects to a Data Lake and Databricks notebooks with a PySpark cluster.
- Engineered Logic Apps and connected them to Azure functions that I developed using TypeScript to deliver results to Optimizely on an hourly basis.
- Coded integration test cases with PyTest for validating the quality of data from the Databricks.

October 2020 - August 2021

Cisco Systems, Seattle, WA - Data Engineer

Developer and Data Engineer role in the Cisco Network System Orchestrator (NSO) product and the Data Center Transport (DCT) function pack.

Project: NSO and DCT

- Successfully developed a supervised Machine Learning model for detecting the anomalies and failures in IoT devices which improved the system's efficiency.
- Deployed automation modules for the NSO in Java and Python for detecting IoT devices, network configurations, and network topologies.
- Created internal modules that involve the use of Cython in order to improve the performance of the NSO.
- Utilized Test Driven Approach for developing the application and implemented unit tests using Python Unit Test Framework in PyUnit.

January 2018 - September 2020

Distribution Now, Casper, WY - Houston, TX- Back-End Developer

Project: Ticketing System

- Designed and developed Docker boilerplate images and deployed them through Amazon Elastic BeanStalk and connected it to a RDBMS and Redis Cache service.
- Transformed the existing data models into Django ORM models and created templates, views, forms and signals.
- Designed and managed the database architecture in PostgreSQL 10.
- Implemented a CI/CD pipeline in order to automate the workflow of the project and performed automation tests with Jenkins.
- Collaborated with IT auditors in the Sarbanes-Oxley Act (SOX) compliance that guarantees internal controls and fulfillment of other regulations to ERP systems in order to prevent any deceptive or fraudulent data reported to the Stock Market.

March 2017 - January 2018

Amdocs, Mexico City, Mexico - Data Engineer

Project: Navigator System

- Served as the tech lead in a team of 5 telecom engineers to develop an in-house web analytics system (Navigator) aimed to assess engineers' performance across multiple countries in Central and South America.
- Responsible for connecting the Navigator system with multiple databases of the Radio Access Networks to display the current active incidents in the 3G and 4G networks.
- Developed the Navigator application in Django connected with NoSQL and SQL databases and implemented a backend asynchronous task queue system for data processing pipelines using the libraries Django-Celery and RabbitMQ.

May 2015 - February 2017

Infor Global Solutions, Mexico City, Mexico - Product Support Analyst

Project: SyteLine and Infor CloudSuite

- Performed customizations in SyteLine 8 and Infor CloudSuite modules with Java and Infor Mongoose.
- Modified Stored Procedures, Triggers and Tables of the ERP through PL/SQL and created complex SQL queries for performing various CRUD operations.
- Backed up and restored entire configurations in SyteLine to test the disaster recovery plans.

May 2013 - August 2013

Athabasca University, Edmonton, Canada- Globalink Research Intern

Project: Research of Associative Learning Skills

- Principal author of the article "Towards the Research of Possible Assessment Tools for Associative Learning Skills" which was selected for publication on the IEEE annals (doi: 10.1109/SITIS.2013.165).

Skills

Programming Languages and Web Technologies:

- **Frequent:** Python 3.x, Java, JavaScript, TypeScript, Django Framework, PL/SQL
- **Casual:** C++, Go

Relational and non relational databases:

- PostgreSQL, Microsoft T-SQL, Oracle 11G, Google Firebase, Cassandra DB, MongoDB

Data Tool Kit:

- Google Colab, Apache, PySpark, Apache Kafka

DevOps Tools:

- Git, Travis, Jenkins, Docker, Kubernetes

Cloud Computing platforms:

- Azure (Data Factories, Azure Databricks, Azure Synapse, Logic Apps, Data Lake containers)
- AWS (RDBMS, Redis service, Elastic Beanstalk)
- GCP (BigQuery, DataFlow)

Certifications:

- Oracle Database SQL Certified Expert (Credential ID: C16824-02)
 - https://www.credly.com/badges/89a5f190-c0b0-4615-96d6-c9ee053eedc7/public_url

Education

2022 - Current

Instituto de Estudios Superiores Tec. de Monterrey (ITESM), Mexico - M.S. in Applied Artificial Intelligence

2014 - 2015

University of Skövde, Sweden - Erasmus Mundus Exchange Programme

2009 - 2014

Universidad Anáhuac, Mexico - B.S. Systems Engineer and I.T.

Startup Challenges & Accolades

(Apr 18, 2022 – Present) - Scholarship award for Masters studies given by ITESM.

(Feb 26 – April 26, 2020) - **Omdena Global Challenge: AI for Energy Transitioning toward a Sustainable Energy System**

Sponsors: World Energy Council (<https://www.worldenergy.org/>).

(May 26 – July 18, 2019) - **Omdena Global Challenge: Identifying Trees on Satellite Images**

Sponsors: Spacept (<https://www.spacept.com/>).

(May 15 - 18, 2016) - **Startup Bus Challenge (Boulder, CO)**

Sponsors BBVA Bancomer, CISCO and PAYBOOK. Boulder, Colorado, U.S.A
(<https://www.facebook.com/TheStartupBus/videos/1306648326031094>).

(2014) - Outstanding distinction award from the National Assessment Center of Higher Education (a.k.a. CENEVAL in Spanish).

(2014) - Erasmus Mundus scholarship to study as an Exchange student at the University of Skövde, Sweden.

(2013) - Mitacs scholarship to participate as a Globalink Research Intern at the Canadian Research Program, Mitacs Globalink.

(2009 - 2014) - Scholarship award for undergraduate studies given by Universidad Anáhuac.

Languages

Spanish - Native; English- Fluent; French - Intermediate