

Alejandro Bautista Ramos

Senior Back-End Engineer

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1. MAIN GOAL

Position as a back-end engineer focused in developing robust and secure web applications in the cloud through AWS and Google Cloud that can be integrated with the existing legacy systems and can be scalable with other technologies.

2. TECHNICAL SKILLS

Programming Languages and Web Technologies:

- **Frequent:** Python 3.x, JavaScript ES9, C# 8, Django Framework 2.x, 3.x, PL/SQL, Vue 3.
- **Casual:** Java 11, HTML5, CSS3, C/C++, Go, Kotlin, R, MatLab.

Relational and non relational databases:

- PostgreSQL 10, Microsoft T-SQL 2008 R2, 2012, Oracle 11G, Google Firebase, Cassandra DB, Mongo DB

Software tools and Methodologies: Scrum, Git, Travis, Docker, Kubernetes, Sphinx Documentation.

Cloud Computing platforms: Heroku (Sendgrid, PostgreSQL), AWS (RDBMS, Redis Service, Elastic Beanstalk, Amazon Route 53, Amazon Cloud Watch)

Operating Systems:

- Linux (Ubuntu 18.04, 20.04; Mint 19.2, 20.1).
- Windows 7,8,10
- macOS (El Capitan, High Sierra, Catalina)

Certifications:

- Oracle Database SQL Certified Expert
 - Credential ID: C16824-02
 - <https://www.youracclaim.com/earner/earned/badge/89a5f190-c0b0-4615-96d6-c9ee053eedc7>

3. EMPLOYMENT

(November 2020 - Present) – Cisco Systems, San Jose, California

Back-End Developer

- Actively working as a back-end developer by creating Java and Python automation modules for the Cisco Network System Orchestrator (NSO). This product retrieves the network setup of existing devices such as configurations and current network topology in an **IoT MQTT broker** style.
- Used **Test Driven Approach** for developing the application and implemented the unit tests using **Python Unit Test Framework** called **PyUnit**.
- Execution of **test plans for loading the data successfully** into the targets and **building Unit Tests**.
- Main developer of the **Python API** known as High Level MAAPI (Management Agent API) which allows the communication between the NSO and web services hosted in **Amazon EC2**, so we can create alarms and notifications using **Cloud watch**.
- Had to use **AWS cloud** in various **AWS Services** such as **Route 53 Domain configurations** for configuration between the NSO and our web services.

(January 2018 - October 2020) - Distribution Now, Houston

Back-End Engineer

- Acted as the main developer of an Incident Ticket Recommender System for the IT department. I had to create and transform the existing data models into **Django ORM** models and had to create **templates, views, forms and signals**.

- Designed and developed **Docker boilerplates** images to be submitted through **Amazon Elastic BeanStalk** and connected a **RDBMS and Redis Cache service** for our application.
- Designed and maintained the database architecture in **PostgreSQL 10**.
- Created a **CI/CD** pipeline in order to automate the workflow of the project. The stack we used was **Github, Jenkins and Kubernetes**.
- Crafted sections of the front end part of the **Django** application with **Vue JS 2**.
- Responsible for working 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

Data Engineer

- Main developer and tech lead of an in-house web analytics system crafted in **Django 1.11** and connected via **Microsoft SQL 2012 and Cassandra NoSQL databases** with the main purpose of assessing engineers' performance across the different countries of Central America (Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica and Colombia).
- Implemented backend asynchronous task queue system for data processing pipelines using the libraries **Django-Celery** and **RabbitMQ**.
- Worked on a **Microsoft IIS 6.0** deployment for hosting the web application with **MS SQL Server 2012** and **Cassandra DB**.
- Used the **requests** library for extracting the data from the NoSQL DB, used **pandas** for statistical analysis, used **numpy** for advanced math functionalities and **ChartJS** to visualize the results in **histograms, pie diagrams and radar diagrams**.
- **Cross Site Forgery Requests (CSR)** were handled through required methods.
- Involved in connecting different APIs such as **SendGrid Email** platform with **MS IIS 6.0**.

(May 2015 – Feb 2017) - Infor Global Solutions, Mexico City

Product Support Analyst

- Performed customizations in some of the SyteLine 8 and Infor CloudSuite modules through **Java 8**.
- Used the **Spring framework** and **Microsoft SQL 2012** in order to deliver the latest builds to the developer team.
- Acted as a developer modifying **Stored Procedures, Triggers** and Tables of the system through **PL/SQL** and created complex SQL queries for performing various **CRUD** operations.
- Created **C# scripts** to modify the functionality of the front end of SyteLine, so new fields, input values and new options interact with the system.
- Upgraded **SQL databases** from version **2008 R2** to **SQL 2012**.
- Backed up and restored entire configurations in SyteLine to test the disaster **recovery plans**.

(January 2014 - July 2014) - Universidad Anáhuac, Mexico City

Junior Web Developer

- Developed websites in **HTML5, CSS3 and JS ES6** for the different faculties and departments of the university and integrated them with our main CMS (**Joomla**).
- Utilized **MySQL database** to perform various CRUD operations to the CMS.
- Designed complex data manipulation queries and data handling queries such as **Views, Functions and Triggers**.

(May 2013 - August 2013) - Athabasca University, Edmonton, Canada

Globalink Research Intern

- I did thorough review about several articles related to **E-Learning environments** and **big data solutions** to innovative educational methods.
- I was the 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).

4. EDUCATION

2014 - 2015 **University of Skövde, Sweden**
Erasmus Mundus Exchange Programme

2009 - 2014 **Universidad Anáhuac**
B.S., Systems Engineering and Information Technologies
GPA: 3.6/4.0

5. ACCOLADES

(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.

6. STARTUP CHALLENGES & CONFERENCES

(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:

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

7. LANGUAGES

Spanish - Native.

English - Advanced level (TOEFL iBT 95/120)

French - Intermediate level (DELFB2).

8. SOFT SKILLS

- Responsible, Conciliator, Problem Solver, Perseverance, Empathic, Perseverant.