

Juan Lopez

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Driven Software Engineer with a focus on Cloud Infrastructure, Full-Stack Development, and Data Analytics. Background in AWS, API Development, and Database Management. Quick learner who enjoys diving into the core principles of solutions to optimize them. Proven excelling in fast-paced professional environments and have a knack for simplifying complex technical concepts when mentoring developers. Creative problem solver with a passion for staying up-to-date with cutting-edge technologies. Customer-first mindset, aiming to enhance customer experience through software development.

EDUCATION

University of Miami, Miami, FL
Master of Data Science/ Machine Learning Track. 2020 – 2021
Honors: Dean List

University of Miami, Miami, FL
Bachelor of Engineering in Software Engineering. 2016 – 2020
Minor: Mathematics

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER ENGINEER | Amazon Web Services, Amazon | New York City, NY | Jan '22 – Current

- Designed and implemented API's for our customer-facing product, utilizing APIGateway, Lambda, and Smithy to create a self-service metric viewing product.
- Created metric computations using Elastic MapReduce Jobs, PySpark, S3 to DynamoDB replication, and an API to retrieve metrics to enhance customer usability.
- Created dashboard visualizations leveraging React.js to give customers insights on their metric performance.
- Developed an auditing system that uses historical Neptune Graph DB change events, in conjunction with an API to retrieve auditing of specific entity events, providing customers historical changes to their unique graph hierarchies
- Proposed and executed the migration of the CloudTrail Service Team's one-click infrastructure creator to a CloudFormation solution to improve resource management, scalability, and future scope.
- Expanded our product's reach from approximately 8,000 customers to 300,000 potential customers, providing insights into Continuous Deployment/Continuous Integration health for their teams.
- Provided training and mentorship to another software engineer to develop their skills and gain experience with Amazon, helping them become an effective member of our team.

SOFTWARE DEVELOPER ENGINEER | eGain, SaaS Virtual Assistant | Tampa, FL | May '21 – Jan '22

- Proposed new version of Chat Sessions API, leveraging specific messaging channel Id's for the Virtual Assistant. Creating a composite key of Messaging Channel Id + Interaction Id for the products pain-point of same customer interacting through multiple messaging channels
- Migrated archived Databases with new Chat Session events, to have historical auditing info.
- Performed debugging using Postman calls and JVM debugger to follow variables through the paths of multiple API's.
- Implemented JUnit Testing for a package that would be the new deployment of Q2 in 2022

SOFTWARE DEVELOPER ENGINEER INTERN | Smart City Hub, City of Miami | Miami, FL | May '20 – Dec '20

- Debugged and Analyzed a User Intention Chatbot for the City of Miami Website and found some errors and where the chatbot was not as optimal.
- Optimized the Chatbot Web-Scraping feature with an increase performance of about 50% faster and optimized the Pre-Processing of the Data for Machine Learning Model Selection and Model Improvements.
- Worked on the development of a Deep Learning Neural Network to perform better Text Mining and Feature Extraction from User Text for better assistance navigating through the multiple features of the City of Miami, Smart Hub site.

PROJECTS

TWITTER SENTIMENT ANALYSIS | BIG DATA ANALYTICS PROJECT

- Used Google Cloud Platform Dataflow to create a streaming data from Scraping Tweets to be posted on Cloud Storage at about 40,000 tweets per 5-minute windows.
- Pre-Processed tweets using PySpark to speed up the process of sentimental analysis
- Used Natural Language Tool Kit Vader for sentiment analysis on twitter text. Which used polarity of the tweets to determine their positive, negative, or neutral values.
- Integrated Google Cloud Platform BigQuery to put the newly categorized Sentimental Tweets for SQL based queries.

CORE SKILLS & TECHNOLOGIES

- **Key Skills:** AWS, GCP, Data Processing, Data Visualization, Data Cleaning, Command-Line, Data Mining, Git & Version Control, Data Manipulation, Probability/Statistics
- **Tools:** Python, Java, C++, ASM, SQL, MySQL, NoSQL, PostgreSQL