ALEJANDRO BAUTISTA RAMOS

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PROFESSIONAL SUMMARY

Versatile and solution-oriented Data Infrastructure Software Engineer with 8+ years in the IT sector, specializing in data infrastructure for 3 years, with a keen focus on backend development, machine learning, and AI infrastructure. Known for crafting robust data pipelines and AI systems that boost operational efficiency and decision-making. Leverages technical expertise in Python, C#, TypeScript, PL/SQL, combined with a deep understanding of Azure, Google Cloud Platform and AWS ecosystems to deliver innovative solutions. Recognized for exemplary leadership, with ability to guide teams to excel in high-stake environments, while driving alignment with strategic objectives. Ready to use my skills and experiences to drive business growth and innovation in a new, challenging role.

CORE COMPETENCIES

- Data Pipeline Development
- Data Platform Design & Delivery
- Machine Learning/AI Infrastructure Development
- DevOps Engineering
- Backend Infrastructure Development
- API Development & Integration
- CI/CD Process Implementation

- Holistic Project Management
- Strategic Planning & Stakeholder Alignment
- Team Leadership & Development
- System Automation & Optimization
- Regulatory Compliance
- Documentation & Reporting
- Cross-Functional Collaboration

WORK EXPERIENCE

DATA INFRASTRUCTURE SOFTWARE ENGINEER (CONTRACT) | 09/2021 to Current
AIM Consulting for Alaska Airlines Group - Seattle, WA

- Serve as principal Data Engineer and DevOps Engineer for Alaska Airlines Group, spearheading critical transformation of analytics function within E-Commerce department while leveraging expertise in backend development and machine learning/AI infrastructure, enhancing decision-making efficiency, system functionality, and customer experience.
- **Data Platform Design & Delivery**: Conceptualized and led implementation of a data platform API in Azure, designed to collect near real-time booking data; the system further evaluates customers' shopping patterns, subsequently furnishing these insights to Revenue Products & VP Execs via Optimizely dashboards.
- **Infrastructure and Workflow Development**: Orchestrated development of Azure Synapse Analytics infrastructure and workflows, employing CI/CD processes for deployment across DEV, QA, and Prod environments; this overhaul replaced 30% of pre-existing Azure Data Factories, bolstering data availability and reliability for Experience Analysts, Merchandising & Revenue, and E-commerce engineering teams.
- **Data Pipeline Construction**: Engineered and rolled out data pipelines within Azure Synapse Analytics to gather survey data from multiple APIs (Qualtrics, SurveyMonkey) to support assessment of new Bag Tag stations across five major US airports, facilitating identification and swift resolution of issues during release.
- **Machine Learning Infrastructure Development**: Devised central infrastructure for Abandoned Cart Price Drop Feature Alert by leveraging diverse technologies, including Google Cloud Platform ecosystem, Terraform, Azure DevOps and Tealium, providing users with timely notifications of significant price drops on flight tickets for their abandoned carts, which resulted in 6% conversion rate within initial three weeks.

DATA ENGINEER (CONTRACT) | 10/2020 to 08/2021
Persistent Systems for Cisco Systems - Seattle, WA

- **Data Ingestion Pipeline Development**: Devised data ingestion pipelines using Apache Kafka and Databricks, facilitating hourly log collection from thousands of NSO's virtualized devices to enable efficient anomaly and failure detection.
- **Automation Modules Design & Deployment**: Led design and deployment of automation modules using Java and Python for IoT device detection, network configurations, and topology identification for the NSO, culminating in 10% reduction in network convergence time.
- **IoT Configuration and Topology Detection**: Configured libraries to identify existing IoT devices, configurations, and current network topology following an IoT MQTT broker style.
- **API Development**: Functioned as primary developer for High-Level MAAPI (Management Agent API), enabling communication between NSO and web services hosted on Amazon EC2.

WORK EXPERIENCE (CONTINUED)

BACK-END DEVELOPER & SYTELINE ADMINISTRATOR | 01/2018 to 09/2020
Distribution Now - Houston, TX; Casper, WY
- Pioneered design and construction of a Django web app's backend infrastructure to enhance requests made to ERP SyteLine, demonstrating strong command of backend development.
- Leveraged Docker to create images for AWS Elastic Beanstalk, connecting RDBMS and Redis Cache service to significantly enhance application speed.
- Transformed existing data models into Django ORM models, while developing templates, views, and Django signals, reflecting deep understanding of Django framework.
- Actively collaborated with IT auditors in ensuring Sarbanes-Oxley Act (SOX) compliance for ERP systems, showcasing diligence in maintaining integrity and accuracy of data reported to Stock Market.

BACK-END DEVELOPER FOR CLARO TELECOMMUNICATIONS PROJECTS, LATIN AMERICA | 03/2017 to 01/2018
Amdocs | Mexico City, Mexico
- Led team of five telecom engineers to create in-house web analytics system, Navigator, improving engineers' performance assessment across Central and South America.
- Established connectivity between Navigator system and multiple Radio Access Network databases, enabling real-time visualization of active incidents in 3G and 4G networks.
- Developed Navigator application using Django, NoSQL & SQL databases and orchestrated backend asynchronous task queue system for data processing pipelines with Django-Celery and RabbitMQ.

PRODUCT SUPPORT ANALYST | 05/2015 to 02/2017
Infor Global Solutions - Mexico City, Mexico
- Served as key member of North American Technical Support Team handling technical issues related to ERP SyteLine/ CloudSuite Business Industrial, performing system customizations via Java, modifying stored procedures, triggers, and tables via PL/SQL, and crafting complex SQL queries to facilitate various CRUD operations.

EDUCATION

Certificate Program in Deep Learning & Machine Learning: Application Frontiers | University of Washington | 2023
Erasmus Mundus Exchange Programme | University of Skövde, Sweden | 2015
B.S. Systems Engineer and I.T. | Universidad Anáhuac, Mexico | 2014

CERTIFICATIONS

Microsoft Certified: Azure Data Engineer Associate ([Credential I671-1995](#)) | 03/2023
Oracle Database SQL Expert ([Credential IC16824-02](#)) | 09/2012

TECHNICAL SKILLS

Programming Languages & Web Technologies: Frequent: Python 3.x, C#, TypeScript, PL/SQL; Casual: Go, Java
Databases: Relational: PostgreSQL, Microsoft T-SQL, Oracle 11G, Amazon RDBMS; Non-Relational: Google Firebase, Cassandra DB, MongoDB
Data Tool Kit: Apache Kafka, Apache PySpark, Azure Databricks, Databricks ML Flow, Pytorch, Azure Data Factory, Google BigQuery, Google Pub/Sub, Google Data Flow, Azure Synapse Analytics
DevOps Tools: Git, Azure DevOps, Jenkins, Docker, Kubernetes, Amazon Elastic BeanStalk
Cloud Computing Platforms: Azure, Google Cloud Platform (GCP), Amazon Web Services (AWS)

STARTUP CHALLENGES

Omdena Global Challenge: AI for Energy Transitioning toward a Sustainable Energy System | 2020
Sponsors: World Energy Council
Omdena Global Challenge: Identifying Trees on Satellite Images | 2019
Sponsors: Spacept
Startup Bus Challenge (Boulder, CO) | 2016
Sponsors: BBVA Bancomer, CISCO and PAYBOOK

SOFT SKILLS

Transformative Leadership | Excellent Communication | Accuracy & Attention to Detail | Analytical & Critical Thinking | Creative Problem-Solving | Time Management & Organization | Highly Adaptable & Resilient

LANGUAGES

Spanish: Native | **English**: Proficient | **French**: Upper intermediate | **German**: Beginner