ALEJANDRO ALVAREZ ETCHEGARAY

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EXPERIENCE

Senior Software Engineer, Oracle, Mexico — 2023–Present

• Developed and released a new user interface (UI) for an existing Supply Chain Management product with a large customer base and high visibility in the industry.

• Collaborated with cross-functional teams including product managers, designers, and QA engineers to define requirements, design UI mockups, and implement features.

• Played a key role in the successful launch of the updated product.

Technologies: Javascript, SQL, Java EE

Senior Machine Learning Engineer, Oracle, Mexico — 2020–2023

• Developed machine learning models for optimizing 5G networks, automating network operation tasks and decisions.

• Designed and implemented a framework for model deployment in production using Kafka, ensuring scalability and reliability.

Technologies: Python, Keras, Tensorflow, Druid, MySQL, Kafka, Java EE, Spring Boot, Kubernetes, Docker

Big Data Developer, Oracle, Mexico — 2016–2019

• Developed infrastructure components for Oracle's Big Data platform using Hadoop, ensuring scalability and performance.

• Designed and implemented databases to support data storage and retrieval for analytics projects.

Technologies: Linux, Perl, Python, Hadoop, Bash, Spark, Puppet

EDUCATION

Universidade Nova de Lisboa — Master of Science in Data Science, 2021
Tecnologico Monterrey — Bachelor of Science in Computer Science, 2016
University of New South Wales — International Exchange, 2012–2013

SKILLS

• Strong problem-solving skills with a proven ability to navigate complex technical challenges.

• Demonstrated leadership and ownership in projects, with a proactive approach to accountability and results delivery.

• Demonstrated ability to communicate and negotiate with management and engineering teams.

• Programming Languages: Python, SQL, Javascript, Java

• Data Science Techniques: Machine Learning, Data Visualization, Statistical Analysis

OTHER INDEPENDENT PROJECTS

Portfolio Optimization Using Evolutionary Algorithms (2020, Master's Thesis)

- Conducted research on optimizing investment portfolios in the stock market using evolutionary algorithms.
- Implemented computational models to improve portfolio performance through data-driven strategies.
- Create a webpage to search, visualize and interact with computer generated portfolios.

Technologies: Python, Django, Javascript, Bootstrap

Victoria Fest (2021)

- Created a system for a live event focused on entrepreneurship for women, managing all aspects including registration, mailing campaigns, live event streaming, and post-event analytics.
- Successfully handled thousands of concurrent viewers during the live event.

Technologies: Python, Django, Google Cloud Platform

ProcessMaker Integrations (2020)

- Implemented integrations between process maker and billing systems, analytics, MercadoLibre, and CRM systems, improving efficiency and data management for clients.

Technologies: Python, PHP, Laravel, Django, MySQL, Google Cloud Platform, Google Analytics

Alerta Migrante (2020)

- Developed an iOS/Android application for a law firm to provide immigrant communities in the US with direct access to their attorneys.
- Implemented features for secure communication and information sharing, enhancing accessibility to legal services for immigrants.

Technologies: iOS, Xamarin, Android, Python, Django, MySQL

AMEPSO Ibero (2021)

- Developed a suite of virtual classrooms to facilitate the hosting of the prestigious Mexican Congress of Psychology in 2021, conducted live.
- Crafted a comprehensive array of interactive tools empowering attendees to engage seamlessly with organizers, presenters, and fellow participants, enhancing the overall event experience.

Technologies: Python, Django, Google Cloud Platform