

Omar Ibañez

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Professional Summary

Experienced Software and Data Engineer with over 10 years of experience leading high-performing, diverse, and geographically distributed teams. Proficient in crafting high-quality software solutions, with a solid foundation in Python, Go, and JavaScript. Dedicated to fostering a fast-paced, collaborative environment and advancing efficient software engineering practices to boost innovation and progress.

Employment

Engineering Lead, Koffie Financial

August 2022 - Present

- Led the development of a calculation engine utilizing Directed Acyclic Graphs (DAGs) and a Domain-Specific Language (DSL), enhancing insurance policy rating by transitioning from error-prone spreadsheets to a robust, automated system.
- Designed and implemented a tool that monitors the main events of an insurance policy, aiding in tracking and triggering tasks throughout the policy life cycle.
- Directed the migration from a Columnar-Oriented Database to a Row-Oriented Database by developing a migration tool with a data type translation layer.
- Automated all financial transactions related to the insurance policy using our internal events system and integrating it with QuickBooks.

Tools: *Python, FastAPI, SQLAlchemy, Pandas, NumPy, PostgreSQL, Google Cloud Platform, Google Cloud BigQuery, Google Cloud DataStore, Google Cloud Secret Manager, Google Cloud IAM, QuickBooks.*

Data Engineer, Dispatch Health

October 2022 - September 2023

- Led the design and implementation of a Feature Store, optimizing the management and utilization of machine learning features across various projects.

- Designed and implemented a REST to gRPC proxy service to serve machine learning models across different communication protocols.
- Orchestrated two distinct data pipelines from Redshift to our Feature Store.

Tools: *Apache Airflow, Apache Kafka, Terraform, Amazon Redshift, Amazon SageMaker, AWS Lambda, PostgreSQL, REST, GraphQL, Python, Go, Ruby.*

Engineering Lead, BriteCore

March 2019 - August 2022

- Enhanced the legacy policy rate engine.
- Improved the legacy document generation platform.
- Designed and developed an insurance document drag-and-drop editor that allowed stakeholders to create documents and trigger their generation by pulling data from various sources using GraphQL.

Tools: *Python, Pyramid, SQLAlchemy, Django, PostgreSQL, Docker, Elasticsearch.*

Engineering Lead, Eastridge Workforce Solutions

January 2017 - March 2019

- Spearheaded the recruitment of the initial engineering team for the Tijuana office.
- Enhanced platform speed through the optimization of SQLAlchemy queries.

Tools: *Python, Pyramid, SQLAlchemy, Django, PostgreSQL, Docker, Elasticsearch.*

Engineering Lead, Feedb

July 2016 - January 2017

- Implemented Sentry and monitoring tools, significantly improving customer support.
- Developed a Zapier app, expanding integration options for customers.

Tools: *PHP, CodeIgniter, JavaScript, JQuery.*

Engineering Lead, Global Hawk Insurance Company

October 2014 - July 2016

- Managed distributed teams across India, Mexico, and the USA, enhancing team communication and project delivery.

- Pioneered rapid prototyping techniques to test and refine new ideas efficiently.

Tools: *PHP, Zend Framework, JavaScript, Python, Django, Angular, jQuery.*

Software Engineer, EmpresaPyME

February 2014 - October 2014

- Designed and developed an automation system for account management, streamlining processes for hundreds of clients.

Tools: *PHP, Zend Framework, JavaScript, Backbone.js.*

Software Engineer, LevelUp

May 2012 - February 2014

- Conducted comprehensive black-box penetration testing, significantly enhancing platform security.
- Led the design and development of the forum platform used by levelup.com and all BuscaCorp's websites.
- Led the front-end team in implementing the redesign of levelup.com, improving user engagement and experience.

Tools: *PHP, Zend Framework, JavaScript, Backbone.js.*

Software Engineer, Merchant de Mexico

January 2011 - May 2012

- Led the migration of the billing and inventory system from Delphi 7 to C#.
- Led a team of contractors to upgrade the company's hardware infrastructure.

Tools: *C#, .NET, Delphi 7, Microsoft SQL Server, PHP, C++.*

Education

Master in Cognitive Behavioral Therapy

Universidad Xochicalco, Tijuana, México.

2024 - Present

Bachelor in Psychology

Universidad Humanitas, Tijuana, México.

2019 - 2023

Software Engineering (Coursework)

CESUN Universidad, Tijuana, México.

2011 - 2012

Systems Engineering (Coursework)

Universidad Autónoma de Ciudad Juárez, Ciudad Juárez, México.

2009 - 2010

Volunteer and Mentorship

Django Girls San Diego

Conducted a workshop to help women build their first website using Django.

Python Tijuana

Co-founder and active speaker at the Python meetup group.

Startup Weekend TJ

Served as a mentor in the Startup Weekend community.

DCG 664 Founded DEFCON GROUP Tijuana, focusing on security and technology meetups.

Languages

- English (C2 Proficiency)
- Spanish (Native)