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QUALIFICATIONS

Web applications development with **Ruby on Rails**, Systems Analysis and Design. Consulting, Project Management, Software Engineering, **Agile technologies** with **SCRUM** and **KANBAN**, Rational Database design (PostgreSQL and **MySQL**), **Ruby on Rails development**. **MongoDB** NoSQL Database. Experience as Project Leader for TI projects (MS Project). University professor teaching graduate and undergraduate courses at UIC, UDLA and the Instituto Tecnológico de la Construcción. Business plan definition and implementation in Cruz Azul S.C.L. Sales and solution definition of CTI projects, predictive dialing, CRM, Customer Contact Management systems, sales and presales activities for call center technology. Development and system implementation of Banking Products and Services. Implementation of a MRP project as a Project Leader. Development of mathematical models for budgeting and forecasting purposes. Negotiation of term and conditions of credit applications. Development and implementation of Joint-Venture project for Cruz Azul S.C.L. Debt refinancing projects, negotiation of term conditions of credit. Development of computer systems for finance and administrative applications.

ACHIEVEMENTS

- **Ruby on Rails remote development** for Weblinc and CabForward
- **Ruby on Rails** COBALT application development. This application is used to implement Copart Inc. User Story for International Yards, actually, for India, Spain and Germany.
- **Ruby on Rails API's development** using the Oauth2 Authorization Server.
- **Web application development in Ruby on Rails**
- Development of the **Pitic gem**
- Courses in **MongoDB** (MongoDB for developers, MongoDB for DBA's and MongoDB for Node.js developers)
- Retirements Project Leader for ProceSAR which is the workers retirement account database administrator nation wide
- Responsible of the BSA group for the INVERDOL (Investment in USD) and SICECO (Scotia bank Accounting System) projects in Scotia Bank
- Software development using **agile methodologies: SCRUM** and **KANBAN**.
- Analysis and design of the Patrimonial Rights Generator for "Acciones y Valores Banamex Casa de Bolsa, S.A. de C.V."
- Database analysis and design of the "Sistema Integral de Información de Adiciones para la SSA."
- Software Development Process Consultant for INDEVAL in the BMV (Mexican Stock Exchange).
- Business plan development and implementation for Redes, Voz, Datos y Video.

- Sales and solution definition of Call Center and Telephony projects, such as, Sección Amarilla, Santander-Serfin, Telmex, Telcel, Alestra, Pegaso, Prime Telecom, and American Express.
- Presales engineer for Melita International in the following successful projects, Bancomer (credit card and mortgage collections call centers), City Bank, California Commerce Bank, Multipack, Tecmarketing (Carso Group telemarketing center).
- Presales engineer for successful sales of 750 call centers positions between 1997 and 1998, representing revenue of \$2 million U.S. Dlls.
- Part of the team that developed several Banking products and services, "Cuenta Productiva" and "Cuenta Pemex", "Cuenta Maestra Bancomer".
- Financial Consultant for the increased capacity project of Cruz Azul cement plant in Hidalgo, Mexico. Negotiation of a \$100 million U.S. Dlls. credit.
- Development of an Investment Prospectus to seek a partnership between Cruz Azul and Lafarge, working with Stanford Research Institute.
- Development of a Cost Analysis system services offer to Government Clients of a Bank.
- Scholarship for graduated studies at Northwestern granted by Conacyt.
- Scholarship granted by I.T.E.S.M. for Bachelor Degree.

EDUCATION

MASTER'S DEGREE NORTHWESTERN UNIVERSITY

From 1981 to 1983

Master's Degree in Computer Science. Overall point average 3.0/4.0

BACHELOR'S DEGREE I.T.E.S.M.

From 1973 to 1977

Degree in Chemical Engineering with emphasis in Industrial Engineering. Overall point average 8.0/10.0

WORK HISTORY

Ruby on Rails Developer - Independent Contractor

Aug 2017 to Date

-SrEnvio

Sep 2019 to Oct 2019

Developing Pitic Ruby Gem, as well as, several user histories developing/maintaining the Shipkraken Ruby on Rails application.

-Transom-Group

Jun 2019 to Jul 2019

Working with Metisentry Ruby on Rail application developing several user histories. MySQL for the back end and HTML, CSS, JavaScript for the front end.

-Aelologica

Oct 2018 to Nov 2018

Working with G5 application which is one of the Aelologica projects. Starting a developer team in Mexico City

-Deenty (www.deenty.com)

Dec 2017 to Aug 2018

Upgrade Deenty web page from Rails 3 to Rails 5, adding the configuration changes needed for Rails 5 and the changes needed in Rails 5 like the permit params to each controller. The application used HAML for the front end, as well as, Postgres DB for the back end.

-CabForward

Aug 2017 to Oct 2017

Working remote as Ruby on Rails developer with Art Store Front application for CabForward using PostgreSQL for the back end.

Ruby on Rails Developer

Feb 2017 to Jul 2017

WebLinc

Working remote as Ruby on Rails developer with eCommerce applications for WebLinc using MongoDB for the back end. The development process that we follow is SCRUM using JIRA.

Ruby on Rails Developer

Jan 2015 to Sep 2016

Copart Inc. at Dallas TX

Working in the COBALT G1 YARDS project as a Ruby on Rails developer, working in the COBALT application, which is the application to conduct the Copart business process at Copart facilities located in Germany, Spain and India. Technologies used: Ruby on Rails, RESTful API's, MySQL database (mysql2 gem), JavaScript (CoffeeScript) and AngularJS for the UI. We work with GIT project hosting, repository and version control. The development process that we follow is SCRUM using JIRA.

Ruby on Rails Developer

Jul 2013 to Dec 2014

SolutionsIQ at Redmond, WA

Working in a project for AT&T developing **Restful API's** using OAuth2 Authorization Server to allow AT&T subscribers grant consent to an application to access their information. The application was developed using Ruby on Rails framework. We used GIT for project hosting and version control

Ruby on Rails Developer (Freelance)

Dec 2010 to Jul 2013

Web applications development using **Ruby on Rails. Rails 4.x, Rails 3.x, Ruby 2.0.0, Ruby1.9.3. DBB and TDD with RSpec.** Experience using **bootstrap, capybara, cancan, bcrypt-ruby, paperclip and carrierwave (to upload images) will_paginate, sunspot, mongoid among other gems.** Git version control. ActiveRecord ORM using PostgreSQL (pg), MySQL (mysql2) and Oracle (activerecord oracle enhanced adapter) databases. Application deployment in the cloud with EngineYard and Heroku services (GITHUB account <https://github.com/jfigueroagama>)

Business Process Analyst, Mexico City

May 2013 to Jul 2013

HDS. Business Process analyst in the Product Department at HDS. Requirement Analysis for an Electronic Medical Record (EMR) application.

Intellego, Mexico City

Dec 2012 to May 2013

Responsible in the Software Factory for ProceSAR projects. Functional Design and Requirements specification review and refinement. **QA** for the Technical Design artifacts such as activity diagrams, class diagrams, deployment diagrams and entity-relation diagrams using Enterprise Architect. **Agile Development Process with SCRUM.**

ProceSAR, Mexico City

May 2012 to Nov 2012

Project Leader

Retirement System. Responsible for the analysis and design of the system, as well as, the project

administration from analysis and design to development, testing and implementation of the new Retirements Application

IDS, S.A. de C.V., Mexico City
System Analyst and DB Design

Jun 2005 to Apr 2012

Responsible of the BSA group for the INVERDOL (Investment in USD) and the SICECO (Scotia bank Accounting System) projects for “Scotia Bank”. **Agile methodologies** implementation: **SCRUM** and **KANBAN**. Analysis and design of the Patrimonial Rights Generator (stock rights payment to the stock owners) for “ACCIVAL Casa de Bolsa”. Database analysis and design for the “Sistema Integral de Información de Adiciones para la SSA.” Analysis Project Leader for the Corporative Rights System Development in INDEVAL (Stock Depository Institute) in the analysis and systems design. Business System Analyst in Infonavit’s application management project. Data Base design for the SMS service in Infonavit, the services implemented were: How much I have saved? How much I own in my credit? Do I qualify for a credit? SARA system (Credit Funds Assignment) Data base reengineering. Software Development Process Consultant and Mentor for the ING Account. RUP Software Development Process and implementation of RUP defined artifacts in the development process.

MER Communication Systems de México, Mexico City
Product manager

Sep 2004 to Jun 2005

Product Manager. Introduction in the Mexican Call Center market of StrataDial, predictive dialer. Partnership between Strata soft, Inc. and MER. Technical support of the product using the Stratadial application (call center and predictive dialing application)

Redes, Voz, Datos y Video, Mexico City
General Manager

Jan 2002 to Sep 2004

Business Plan for start up of the company. Establish of distribution agreements with INGRAM MICRO, SYNEX, TEAM and 3COM. Responsible of the Commercial Area. Sales of NBX LAN/WAN telephony technology, VoIP technology, voice & data networks, hardware and software solutions. Definition of integral solutions including financing for the projects. Customers: Segunda Mano, Universidad de las Americas, Royal Holiday, Canal 22 and Barsa Planeta.

Davox México, México City
Account Manager

Feb 2000 to Dec 2001

Project Leader. Solution Analyst based on the Client needs for their Call Center needs using Davox Call Center, Predictive dialing technology, CTI technology, Customer Contact Management Systems.

Telnorm, Mexico City
Sales Executive

Oct 1998 to Feb 2000

Sales of Call Center and Telephony Technology. Predictive dialing technology (Mosaix), CTI technology (Apropos), Monitor and QA systems (Nice Systems), Network Monitor Systems and Fraud detection system using SS7 protocol.

Melita de México. Mexico City
Presales Engineer and Project Management

Jun 1997 to Sep 1998

Responsible for defining the technical solution per customer needs definition of host, telephony and network integration of the different customer's platforms with Melita inbound/outbound system. Predictive dialing technology and CTI technology.

D'Nieto Uniformes Empresariales, Mexico City

Oct 1994 to May 1997

D'Nieto Uniformes Empresariales as Corporative Development Manager

Selection and evaluation of Manufacturing Resources. Planning software and its interface with the administrative and financial processes of the company. Project Leader of the implementation of the MRP (Management Resource Planning) software including financial modules. Responsible for export project to U.S.A. and Canada.

Impulsora Infinsa, México City

Feb 1992 to Aug 1994

Financial Services Director

Responsible for creating the Department of Financial Services, as well as, Financial and Business Senior Consultant for Cruz Azul, the third largest cement company in Mexico. Development of the financial and strategic plan of the company working with the CEO and the Senior Management of Cruz Azul evaluating new industrial plants, expansions, possible join-ventures and partnerships, as well as new business like a Tourist Complex development.

Bancomer, Mexico City

Apr 1987 to Jan 1992

Senior Executive

Responsible for the business relation between the Bank and important government clients like Pemex, CFE, Cia. de Luz y Fuerza del Centro and Fertimex.

Administrative Manager. Cost and productivity analysis of the services given by the Bank. Development of custom services and products in order to improve market share.

New product development. Development of banking products and services and its implementation. Productivity analysis of banking products.

Petroleos Mexicanos

Feb 1984 to Apr 1987

Senior Analyst of Strategic Planning

Development of mathematical models (econometric models based on linear programming) in order to do medium range forecast of Pemex. Development of computer systems and forecasting tools. Selection of hardware and software.

Banamex

Aug 1983 to Jan 1984

Systems Engineer

Use of capacity planning systems for the Data Processing enters of the Bank. Improve response time and customer service.

Celanese Mexicana

Aug 1977 to May 1981

Process Engineer/Systems Analyst

Chemical Engineer Consultant to Petrochemical Plants. Development of computer systems for chemical, industrial and administrative applications.

TEACHING EXPERIENCE

Instituto Tecnológico de la Construcción

2002 to 2011

Master degree professor

Professor at the "Instituto Tecnológico de la Construcción". Teaching graduate courses in "Project

Management” and “Business Evaluation”

Universidad Intercontinental, México City

2004 to 2006

Professor

Professor at the “Universidad Intercontinental”. Teaching courses such as “Object oriented Programming”, “Software Engineering”, “OO Analysis and Design”, “Java – J2EE” at the Information Technology School.

Universidad de las Américas, México City

2001 to 2002

Professor

Professor at the Universidad de las Americas in México City. Teaching courses such as, Client/Server Systems, Systems Building and Maintenance, Java Programming Language, and The Entrepreneur Seminar.