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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 (Oracle, 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 Tecnologico de la Construccion. 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 Join-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 API’s development in the Oauth2 Authorization Server
* Web application development in Ruby on Rails: [www.carmen-gallery.com](http://www.carmen-gallery.com), [www.anipp-mexico.org](http://www.anipp-mexico.org)
* Experience in MongoDB (MongoDB for developers, MongoDB for DBA’s and MongoDB for Node.js developers certificates )
* 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-Serfín, 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 in order 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 al Northwestern granted by Conacyt.
* Scholarship granted by I.T.E.S.M. for Bachelor Degree.

# EDUCATION

**MASTER'S DEGREE NORTHWESTERN UNIVERSITY** From1981 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 From July 2013 to date

RoR Developer in SolutionsIQ at Redmond, WA. Working in a project for AT&T developing API’s using Oauth2 Authorization Server to allow AT&T subscribers grant consent to an application to access their information.

Ruby on Rails Developer (Freelance) From Dec 2010 to date

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 twitter bootstrap, capybara, cancan, bycrypt-ruby, will\_paginate, sunspot, mongoid, AWS S3 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.

HDS From May 2013 to July 2013

Business Process Analyst. Business Process responsible in the Product Department in HDS for an Electronic Medical Record (EMR) application.

Intellego From Dec 2012 to May 2013

QA 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 From May 2012 to Nov 2012

Retirement System Project Leader. 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. From Jun 2005 to April 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 Depositary 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 From 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.

Redes, Voz, Datos y Video From January 2002 to Sep 2004

General Manager. Business Plan for stat up of the company. Establish of distribution agreements with INGRAM MICRO, SYNNEX, 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 From February 2000 to Dec 2001

Account Manager. Call Center, Predictive dialing technology, CTI technology, Customer Contact Management Systems.

Telnorm From October 1998 to February 2000

Sales Executive. 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 (Inrange).

Melita de México From June 1997 to September 1998

Presales Engineer and Project Management. Responsible for defining the technical solution according to 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 From 1994 to June 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 software including financial modules. Responsible for export project to U.S.A. and Canada.

Impulsora Infinsa From 1992 to 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 From 1987 to 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 made 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 From 1984 to 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 From 1983 to 1984

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

Celanese Mexicana From 1977 to 1981

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

**TEACHING EXPERIENCE**

From 2002 to 2011

Professor at the “Instituto Tecnologico de la Construccion”. Teaching graduate courses in “Project Management” and “Business Evaluation”

From 2004 to 2006

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.

From 2001 to 2002

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.