

Sergio Antonio Márquez De Silva

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EDUCATION

PhD Computer Science – All but dissertation
CIC – IPN December 2013

M.Sc. Computer Science
CIC – IPN December 2008

Computer Systems Engineering
Universidad Tecnológica de México Abril 2006

Apple Certified Macintosh Technician,
November 2006

WORK EXPERIENCE

11/07 - Present

CENAC - IPN
Software Developer Leader, Mexico DF, Mexico
Analysis, Design and code web systems (Java, Oracle).
Site link: www.cenac.ipn.mx

1/05 – 10/07

Servicio Electrónico Especializado S.A. de C.V.
Create web sites using Macromedia Flash, PHP and MySql and development the internal system based on Visual Basic for manage the customer service.

MAJOR PROJECTS

October 2013

Freelance Project “Linea Ayuda Origen”. Develop Web System to manage a specialized callcenter. (PHP + MySql) Register Number (Indautor): 03-2013-100413342900-01

December 2012

PhD. Thesis Project: “Web Content Based Image Retrieval using Graph Descriptor”. Responsible for designing the algorithm and implementing in PHP + MySql.

May 2011

Algorithm and System Development to manage the assignment University Career. Java Standalone

Fall 2008

Thesis Project: “Automatic Color Quantization”. Responsible for designing the algorithm and implementing in C++.

PUBLICATIONS (P) & CONFERENCES (C)

- **C.** “El problema de elección de aspirantes al Nivel Superior en el IPN”, Charlas del Café Matemático UAM, Abril 2014,
- **C.** “Tendencias de la Nube”, Simposio Tendencias de las Nuevas Tecnologías de la Información, del Cómputo y las Comunicaciones CENAC -IPN, November 2012, <http://youtu.be/0SCtfjxdA4Q>
- **P&C.** “A simple and effective method of color image quantization” XIII Iberoamerican Congress on Pattern Recognition CIARP 2008, La Habana Cuba, September 2008
- **P.** “A new quantization method for digital color images” IX Conference on computing CORE, Mexico D.F., May 2008

TECHNICAL SKILLS

Programming Languages: C/C++, PHP, Java, Javascript, .Net, Prolog

Platforms: Windows (administrator), Linux (user)

RDBMS: Oracle, SQL Server, MySql

Web Server: Apache, JBOSS

OpenSource: LimeSurvey, WikiMedia, OsTickets

Marketing: Facebook Ads, Google Adwords.

AWARDS AND LEADERSHIP

Google AI Challenge 1st Mexican place. 429 world rank. <http://goo.gl/ZD0WTP>

Project Euler 14^o Mexican rank. 104 problems. <http://goo.gl/RR5YnO>

HackerRank 11^o Mexican rank. (Algorithms). <https://goo.gl/cMFkaB>

Teddy Online Judge Rank: 27°. 30 problems. <http://goo.gl/vlJHBq>

Timus Online Judge Rank: 2952°. 93 problems. <http://goo.gl/XXSo7z>

1st prize in Software Development Contest by UNITEC, Spring 2005

1nd prize in Software Development Contest by Justo Sierra University, Spring 2003

2nd place in National Mathematic Olympiad, 1998