

**SUMMARY OF QUALIFICATIONS**

- IT professional with expertise on Administration of Networks, Computer Systems and Data Communications Analysis.
- Ten years of experience working in a variety of industries from education to international telcos (Telmex).
- Computer security expert capable of quickly identifying and fixing security vulnerabilities.
- Experienced in n-tier architecture covering database design with a variety of DBMS and Unix/Linux variants.
- Advanced customer support, outstanding communication and problem solving skills.
- Solid negotiation skills with emphasis on client satisfaction.
- Excellent project management and supervisory skills.
- Bilingual Spanish/English.

**TECHNICAL COMPETENCIES****Operating Systems**

Unix (Linux, Mac OS X, Solaris), Windows, Parallel Processing, Web based Information Systems.

**Network Technologies**

TCP/IP, Ethernet, WiFi, Distributed Systems, Network Programming

**Computer Languages**

C, C++, JavaScript, Perl, PHP, MS SQL Server, Unix Shell Scripting (sh, bash, ksh, csh), XML, XHTML, DHTML, CSS.

**Development Tools**

Emacs, Eclipse, NetBeans, SVN, UML

**EDUCATION**

*City University of New York Graduate Center*

**Completed two years towards PhD in Computer Science**

Main author and only presenter of paper "Curb your objects! An orthodox form for C# classes". ACM's SIGCSE Bulletin #39.

*UNAM (National Autonomous University of Mexico - Universidad Nacional Autónoma de México)*

**Bachelors Degree in Mathematics and Computer Science**

2004

Only author and presenter of the paper "Transparent Firewalls" (Firewalls Transparentes) for the Computer Security 2000 conference.

**CERTIFICATIONS**

- Microsoft Certified Professional (MCP, ID#5603707). MCDST in progress.
- Brainbench Job Role Certifications as: Telecommunications Specialist, Information Security Administrator, Software Quality Analyst, Computer Programmer, C++, Java and .Net Programmer as well as Software Tester, Web Developer and more (Transcript ID 5891766).
- Brainbench Master-level Certified in: Presentation Skills, Unix/Linux Administration (General), Network Concepts, Network Technical Support, Technical Help Desk Support, Information Technology Terminology, Written Spanish and more.

**EXPERIENCE**

*Center for the Castle Garden Immigration*

New York, NY

**Data Architect Consultant**

November 2007 - Present

Client acquires new data approximately once a year, but the data often contains significant "garbage" or misses items. Improved processes for detecting data-integrity issues. Installation and tuning of test and production databases. Excellent results with data quality improvement larger than 20%. Currently detected availability and accuracy rate is 100%.

*PolicySmart.com*

New York, NY

**Web Developer Consultant**

November 2009 – Present

Client wants to penetrate new market through web-based application; software exists but does not meet requirements. Perform QA testing on existing software. Fix database design, finish user interface. Independently manage project, report progress, meet deadlines, achieve and present results. Communicate with stakeholders to satisfy requirements. Business is currently starting.

*CUNY (Brooklyn and Hunter Colleges)*

New York, NY

**Teacher, Adjunct Faculty**

January 2007 – August 2010

Taught web programming (based on PHP and SQL) as well as Object Oriented Software Design and Analysis (based on C++) to undergraduate students.

*Mixteca Organization, Inc.*

Brooklyn, NY

**Web Master**

August 2008 - August 2009

Clients site was out of date and had broken links. Updated content and fixed links to improve the user's experience.

Google / Workforce Logic  
**Assistant Researcher**  
Confidential project related to Quality Assurance and Software Methodologies.

Santa Clara, CA  
July 2007 - July 2008

Research Foundation CUNY  
**Assistant Researcher**  
Simulation and implementation of algorithmically-efficient energy usage. C and C++ based project.

New York, NY  
September 2006 - March 2007

SEDESOL (Social Development Ministry)  
**Project Manager, Social Development Institute**  
Project that was delayed, understaffed and -in general- at great risk of missing its goals. Actions taken included installation and configuration of servers (some VMWare-based) and applying project management techniques. The outcome was a project achieved results on time and budget; in addition, by keeping all the stakeholders informed of the status all individuals involved became happier.

Mexico City, Mexico  
March 2006 - August 2006

Benotto Bicycles  
**IT Consultant**  
Client's sales system was going off-line when activity approached certain threshold. After assessing the situation, a Windows 2003 Server Cluster running MS SQL Server on a Dell RAID with sensible usage of standard and non-standard levels. Performance and availability improved to a point where no more off-line incidents could be reproduced.

Mexico City, Mexico  
March 2006

UNAM (National Autonomous University of Mexico)  
**Adjunct Teacher, Sciences College**  
Taught Distributed and Parallel Processes and Systems Programming. Java and UML based course.

Mexico City, Mexico  
February 2006 - July 2006

CD Kids  
**IT Consultant**  
Start-up client realized key business elements were outside of their control due to poor outsourcing. Recruited a main developer, advised in the process of renegotiation with the outsource/partner company. Provided additional hands-on help with programming and cryptographic expertise to the main developer. As a result the start-up had all key business elements under control.

Mexico City, Mexico  
November 2005 – June 2006

Intelmex (CCD) / Telmex  
**Computer Science Researcher / New Technology Developer**  
Developed innovative software with applications in health care. The software attracted attention of government offices as well as MIT's Media Lab researchers. Responsibility increased to cover all stages of software development as well as mentoring junior contributors to the project. Promoted to the New Business Area one-year into the job.

Mexico City, Mexico  
2003 - 2005

National Autonomous University of Mexico (UNAM)  
**Systems and Network Administration, Software Development and Databases**  
200+ PCs were unable to access the Internet during the middle part of the day (usually the most productive). Also, library and email server had a number of problems. Actions taken included implementing a ticketing system along with incident/response procedures and network monitoring. Negotiations with budget authorities were taken to justify new wiring network equipment to prepare for expected growth. Result was 500+ PCs in a fast network with nearly zero collision bursts (Political Sciences College 1998-2001).

1994 – 2001

## INTERNSHIPS, VOLUNTEERING AND OTHER ACTIVITIES

Center For Family Life.  
**IT Manager Assistant**  
Internal clients must wait long periods for non-critical PC problems. Help replacing PC components of Dell hardware. Re-installed Windows XP and 7 professional from install CDs and “ghost” images, wired new and malfunctioning sections of the network.

Brooklyn, NY.  
September 2010 – Present.

Topiat inc.  
**Web Development Intern**  
Client had a well-thought idea for a Web 2.0 application and a mock based on Ruby on Rails. The Ruby on Rails infrastructure was kept and Agile Development techniques were applied to produce a first iteration of the software that actually performed the core requirements. The first iteration was used to raise capital and continue the development.

New York City, NY.  
June 2008 - August 2008

Websec for SmArt Security Services.  
**Workshop Trainer**  
Conference workshop on securing database servers running MySQL.

Mexico City, Mexico.  
February 2006 - February 2006

## ACTIVITIES AND SOCIETIES

- Founding member of Mexico's Linux User Group. 1994
- Usenix liaison at UNAM. 1997 – 1998.
- Awarded UNAM Foundation Fellowship 1999
- SAGE member 2003
- Awarded competitive CONACYT Fellowship 2006
- Awarded CUNY Science Fellowship 2007