

Jorge Orpinel

Résumé – 2014

Contact

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Objective

To advance my career in the Technology and Services field, particularly involved with the Digital Entertainment Industry, in order to build innovative and meaningful interconnections between people, culture, and technology.

Key Experience and Skills

Systems integration, software engineering, and IT service management

8 years+ experience in **web development**; desktop and mobile **UI/UX engineering**

Music and audio informatics research with knowledge in **digital signal processing**, scientific computing, psychoacoustics, information visualization, and other scientific fields

Working knowledge of **music production** and **audio/video equipment**; general musicianship, guitar, songwriting

Programming languages	Multimedia / Interactive	Knowledge in these technologies	
PHP, Python, Java	Max/MSP, PortAudio	MVC & javascript frameworks	REST services, APIs
Javascript, Flash/Flex	Csound, KYMA	Oracle, MySQL, Postgres	Web & Email Servers
C (++), Matlab, Ruby	JSyn & JMSL	Windows, Linux, MacOS	Computer Networking

Employment

Sony DADC New Media Solutions (New York, NY)

Backend Developer – **Relentless Generator** [SW dev, Entertainment]

Dec 2013 – Now

- ✓ Develop and Manage several *WordPress* [PHP] and in-house [RoR] for high-performance website hosting in the entertainment industry (music, TV, film, sports)
- ✓ Leading development and deployment process improvement with focus on Change Management, Quality Assurance, and Information Security

New York University (New York, NY)

Instructional Technology Specialist – **Info. Tech. Svcs.** [ITSM, SW development]

Apr – Dec 2013

- ✓ *WordPress* pilot project [wp.nyu.edu] co-lead: custom theme dev and app manager
- ✓ **Google Apps for Ed.** 3rd year support lead and domain manager; Google API scripting
- ✓ Wikis service [wikis.nyu.edu] (*Atlassian Confluence*) service manager / support lead
- ✓ **NYU Stream** (*Kaltura Video Platform*) ITSM and web dev [LAMP / Zend Framework]

NYU (part time)

Technology Specialist – Library's Digital Studio [Audio/Video, web]

Sep 2011 – Sept 2012

- ✓ **NYU Stream** programmer: SQL queries, PHP scripts, [*Kaltura* API, LAMP]
- ✓ Develop a Javascript/HTML/CSS UI/UX frontend linked to a Google Docs form
- ✓ Help clients such as faculty, students and researchers with varied technological needs
- ✓ Support and operate analog/digital multimedia equipment and software (imaging, video, & audio)

Research Assistant - MARL (NYU Steinhardt) [Python, Linux, Flash]

Sept 2010 – Dec 2011

- ✓ Assisted research on a novel musical visualization project funded by the NYU Division of Libraries
- ✓ Developed the *Gordon Music Database* (marl.smusic.nyu.edu/projects/gordon-music-database)
- ✓ Previously developed an internal web app [LAMP] for the MPAP department

TATA Consultancy Services Mexico (Mexico City)

Data Analyst - Profuturo GNP insurance company [Oracle, LAMP]

Jul – Aug 2008

- ✓ Produced technical database specifications for the company's business models
- ✓ Developed on a proprietary PHP framework administrative website

Senior Developer - Mexican Social Security Institute (IMSS) [J2EE, LAMP]

Nov 2007 – Jun 2008

- ✓ Produced technical software documents for large-scale project with national impact
- ✓ Assisted in testing and debugging the Java Spring/Hibernate application (deployed on *WebSphere*)
- ✓ Fully developed and documented two smaller LAMP web projects

Astrata Software, (Santa Fe, Mexico City)

Developer and Project Manager [PHP, MySQL, Apache]

Nov 2006 – Oct 2007

- ✓ Coded various rich internet applications (Web 2.0) with *CakePHP*
- ✓ Managed several development projects with 2-3 coder teams

Freelancing Contractor (part time)

Independent Software Developer [web development]

2005 – now

- ✓ I remain up-to-day and entrepreneurial in the world of web technologies through independent projects such as:
skyscraper.org/cms/vws/ (2012, *WordPress*);
sheltonmindel.com (2010 iPad version);
neurocienciasmexico.com.mx (2009, *Drupal*);
orpinelectronics.com.mx (2008);
mathematics book chapter: jorge.orpinel.com/geometria2005 (2005, *Flash*)

Education

Master of Music in Music Technology steinhardt.nyu.edu/music/technology/programs/graduate

2009 – 2012

New York University, New York City

* master's thesis defense pending

B.S. in Computer Systems Engineering tiny.cc/itesm-cse-bs

2001 – 2006

Monterrey Institute of Technology, Mexico City

- **Abroad studies:** generative computing, A.I. and game theory
University of Westminster, London (2006)

Scholarships CONACYT (Science and Technology National Council, Mexico) 2-year grant: **2010-12**

Google / Hispanic College Fund Scholarship: **2011-12**

NYU Steinhardt Dean's Scholarship: **2011-12**

Publications Demonstration of the Gordon Music Database project at the *ISMIR* 2010 conference at Utrecht, Netherlands. See marl.smusic.nyu.edu/projects/gordon-music-database

Demonstration of the Music Inter-Visualizer project at the *ISMIR* 2011 conference at Miami, FL.

Certificate *ITIL*® foundations

Digital Signal Processing, Audio/Music Programing, Electronics, Psychoacoustics, Musicianship at *NYU Steinhardt*

Notable Coursework Software Analysis & Design, Data Structures, Databases, Computational Theory, Computer Networks, Languages & Translators, Operating Systems, Numeric Methods, Artificial Intelligence, Quality Assurance, Project Management at *Monterrey Tech*.

Languages

Spanish (native)

English (excellent)

French (basic)