

# Jorge Orpinel

Résumé – 2016

## Contact

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## Objective

Building innovative and meaningful connections between people, culture, and technology.

## Key Experience and Skills

Over 9 years experience in **full-stack web development**, **UI/UX**, and **IT service management**

Well-rounded **software engineering** skill set, especially in analysis, **integration**, QA, and **architecture**

**Music and audio** informatics; knowledge in **digital signal processing**, scientific computing, psycho-acoustics, music information retrieval, et al

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

### Programming languages

PHP, Python, Java  
Javascript, Flash/Flex  
C (++), Matlab

### Multimedia / Interactive

Max/MSP, PortAudio  
Csound, KYMA  
JSyn & JMSL

### Other relevant technologies

Web frameworks  
MySQL, Postgres  
Linux, Windows, Mac OS

## Employment

### Independent Contractor (remote)

#### Web Development, Systems Architecture

Feb 2016 – current

- ✓ Corporate website translation (i18n, l10n) project **Fleishman Hillard** (PHP, Wordpress, WPML)  
[fleishmanhillard.com](http://fleishmanhillard.com)
- ✓ Web Applications for **The Skyscraper Museum**:  
[skyscraper.org/cms/vws/](http://skyscraper.org/cms/vws/) (2016, WordPress), [skyscraper.org/tenandtaller/](http://skyscraper.org/tenandtaller/) (2016, HTML5, Leaflet, D3.js)

### Sony DADC - New Media Solutions (New York, NY)

#### Software Engineer – Relentless Generator [SW dev, Entertainment]

Dec 2013 – Feb 2016

- ✓ **Develop WordPress** enterprise platform [PHP] for **high-availability** network with hundreds of websites in the entertainment industry. ([myplay.com](http://myplay.com))  
Responsibilities: **Back end** (plugin) development, code review, automated testing, deployment, **continuous integration**
- ✓ Release/build management for **WordPress** and **Drupal**, continuous integration & source control [**Jenkins**, **Git**, **Capistrano**] for QA and information security

### New York University (New York, NY)

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

Apr – Jan 2014

- ✓ **WordPress** ([wp.nyu.edu](http://wp.nyu.edu)): service planning and **theme** developer
- ✓ **Google Apps for Ed.** support lead and domain manager; **NYU Wikis** [**Atlassian Confluence**] co-lead
- ✓ **NYU Stream** (**Kaltura Video Platform**) developer [**PHP**, **Zend Framework**]

### NYU (part time)

#### Technology Specialist – Digital Studio [Audio/Video, web]

Sep 2011 – Sept 2012

- ✓ Support specialist for various **digital technology services**
- ✓ Operate analog/digital multimedia equipment and software (imaging, video, & audio)

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

Sep 2010 – Dec 2011

- ✓ Assisted research on a novel musical visualization project funded by the NYU Division of Libraries
- ✓ Developed the [Gordon Music Database](#) (demonstrated in [ISMIR 2010](#))

#### **TATA Consultancy Services Mexico** (Mexico City)

**Data Analyst - Profuturo GNP** insurance company [**Oracle, LAMP**] **Jul – Aug 2008**

- ✓ Designed **relational database schemata** for the company's business models
- ✓ Developed on a proprietary **MVC framework** (PHP)

**Senior Developer - Mexican Social Security Institute (IMSS)** [**J2EE, LAMP**] **Nov 2007 – Jun 2008**

- ✓ Produced **technical software documents** for large-scale project with national scope
- ✓ Assisted in testing and debugging **Java Enterprise** application [Maven, *WebSphere*, Spring, Hibernate]

#### **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*
- ✓ **Lead** for several development projects (2-3 coder teams)

#### **Freelance** (part time)

**Web Development, Systems Architecture** **2005 – 2016**

- ✓ IT Consultant for **The Skyscraper Museum** [Mac OS, Windows, Networking, Printing]  
Develop web projects [HTML/CSS/Javascript, FTP, SSH, Linux hosting]  
[skyscraper.org/cms/](http://skyscraper.org/cms/) (2012, *WordPress*), [skyscraper.org/hoh/](http://skyscraper.org/hoh/) (2014, PHP)
- ✓ Active member of open source software development communities, for example:  
<https://github.com/jorgeorpinel>  
<http://stackoverflow.com/users/761963/jorge-orpinel> – see also linked communities  
<https://wordpress.org/support/profile/jorgeorpinel>
- ✓ Several archived projects e.g.:  
[sheltonmindel.com](http://sheltonmindel.com) (2010 iPad version);  
[neurocienciasmexico.com.mx](http://neurocienciasmexico.com.mx) (2009, *Drupal*);  
Mathematics book chapter at [jorge.orpinel.com/proyectos/geometria2005/](http://jorge.orpinel.com/proyectos/geometria2005/) (2005, Flash)

#### **Education**

**Master of Music in Music Technology** [steinhardt.nyu.edu/music/technology/programs/graduate](http://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](http://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](http://marl.smusic.nyu.edu/projects/gordon-music-database)  
Demonstration of the Music Inter-Visualizer project at the *ISMIR 2011* conference at Miami, FL.

**Certificates** *ITIL*® Foundations (2013)

*Sony* Secure Software Development – PHP (2015)

Digital Signal Processing, Audio/Music Programming, 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)