

Jorge Orpinel

Résumé – 2017

Contact

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Objective

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

Key Experience and Skills

Over 10 years experience in **full-stack web development** and **IT service management**

Formal **software engineering** background: analysis & design, **architecture**, **integrations**, and QA

Educated in **music and audio** informatics: **digital signal processing**, audio synthesis, et al.

Experience with **music production** and **audio/video equipment**; musicianship in guitar, songwriting

Languages and Frameworks

Python, PHP, Javascript
Django, WordPress, Angular
Java, C++, Matlab

Multimedia / Interactive

Max/MSP, PortAudio
Csound, KYMA
JSyn & JMSL

Other relevant technologies

Cloud infrastructure (AWS)
MySQL, Postgres, NoSQL
Linux, Windows, Mac OS

Employment

Independent Contractor (remote)

Web/Software Development, Systems Architecture

**Feb 2016 –
current**

- Email System and Internal Web App (FinTech) for **PXA Corp/ Hammock**
[Amazon Lambda, Python Django, QuickBooks Online API]
gethammock.com
- Web Application (responsive) for **PeopleMovers** [PHP
CodeIgniter, Angular, Web Sockets]
peplemovers.com
- REST API Client Lib Tests (unit, integration) for **GoneBusy**
[PHPUnit, Swagger, GitHub]
<https://gonebusy.github.io/libraries>
- Web Applications for **The Skyscraper Museum**. Examples:
skyscraper.org/cms/vws/ (2017) [PHP WordPress, JavaScript]
skyscraper.org/tenandtaller/grid/ht6.html (2017) [Bootstrap,
JavaScript]
skyscraper.org/tenandtaller/ (2016) [HTML5, Leaflet, D3.js]
- Corporate website translation (i18n, l10n) for **Fleishman Hillard**
[PHP, Wordpress, WPML]
fleishmanhillard.com

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)
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): 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 co. [Oracle, LAMP] Jul – Aug 2008

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

Software 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 2005 – 2016

- ✓ IT Consultant for **The Skyscraper Museum** [Mac OS, Windows, Networking].
Websites:
skyscraper.org/cms/ (2012, *WordPress*); skyscraper.org/hoh/ (2014, PHP); et al.
- ✓ 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 (2010 iPad version); neurocienciasmexico.com.mx (2009, *Drupal*);
Mathematics book chapter at jorgeorpinel.com/proyectos/geometria2005/ (2005, Flash)

| Education | | |
|---|---|----------------|
| Master of Music in Music Technology | steinhardt.nyu.edu/music/technology/programs/graduate New York University, New York City | 2009 – 2012 |
| B.S. in Computer Systems Engineering | tiny.cc/itesm-cse-bs Monterrey Institute of Technology, Mexico City | 2001 – 2006 |
| | 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 <i>ISMIR</i> 2010 conference at Utrecht, Netherlands. See marl.smusic.nyu.edu/projects/gordon-music-database Demonstration of the Music Inter-Visualizer project at the <i>ISMIR</i> 2011 conference at Miami, FL. | |
| Certificates | <i>ITIL</i> ® Foundations (2013) Sony Secure Software Development – PHP (2015) | |
| Notable Coursework | Digital Signal Processing, Audio/Music Programing, Electronics, Psychoacoustics, Musicianship at <i>NYU Steinhardt</i> Software Analysis & Design, Data Structures, Databases, Computational Theory, Computer Networks, Languages & Translators, Operating Systems, Numeric Methods, Artificial Intelligence, Quality Assurance, Project Management at <i>Monterrey Tech</i> . | |

| Languages | | |
|-----------------------------------|--|-----------------------|
| Spanish (native, academic) | English (excellent, academic) Authorized to work in the USA. | French (basic) |