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Education

Graduate Studies: 96 out of 100 GPA. Aug. 2011 – Dec. 2015. Graduate candidate of M.Sc. in Software and Information Technology (MST) at ITESM – Campus Monterrey. Graduated with honors: *Summa cum laude*.

Undergraduate Studies: 90 out of 100 Final GPA. Sep. 2004 – Dec. 2008. I graduated with a bachelor's degree in Computer Science Engineering (ICC) from "CETYS Universidad" Campus Mexicali.

Work Experience

Google – Software Engineer (June 2016 – Present) *Alphabet Access*

- Developed the automated cloud testing infrastructure for the ACS server

Appian – Senior Software Engineer (June 2013 – June 2016) *Java, JUnit, GWT, CSS, Webdriver, CI, TDD, REST*

- Developed a language feature for Appian's functional programming language, that allows a user to safely invoke side-effect functions that change the state of Appian or other systems.
- Enhanced a test framework for Appian's custom language, by reducing wait time for test feedback from 1 minute to a few seconds.
- Key contributor of the architecture, design & implementation of a web IDE for Appian's custom language.
- Used JAX-RS to build REST services that were then consumed to provide dynamic UIs.
- Built Java middle-tier, GWT front-end and CSS look & feel to provide responsive UIs.

Phoenix Analysts® – Software Developer (Feb 2010 – Jul 2011) *C#, .Net, MS-SQL, ASP.Net, MSBuild*

- Developed back-end data analysis software that intercommunicate servers and databases, and a front-end for those applications.
- Key participant in the design and sole implementor of a web application that consolidates data from 95 different servers in a Nation Wide Intranet, into a single AJAX-enabled executive level drillable report.

Gameloft – World Online Team (Sep 2009 – Dec 2009) *Linux, Apache, MySQL, PHP*

- Enhanced and maintained servers, databases and online client functionality for internet-enabled mobile games.

Gameloft – Programmer (Sep 2008 – Aug 2009) *Java, JavaME, SVN*

- Game development for mobile devices.
- Major projects include two online multiplayer games that use HTTP and TCP/IP, those successes lead the studio I worked at to receive a wider range of device-specific projects and more networked game projects.

Major Projects

Jedi Factory This project helps the user learn CS fundamentals by asking of him to code methods that must pass tests specifying the behavior of algorithms and data structures. *Ruby, Continuous Integration, TDD*

Dependency Locator An implementation of the Service Locator pattern, it provides an easy to use C# API for setting up dependencies; it's non-intrusive and eases modular development. *C#, .Net, NUnit, Design Patterns*

Master's Degree Thesis Automated object-oriented design quality assessment by means of code analysis. I developed a tool that extracts object-oriented design facts from a program, and uses them to create a meta-model, which is then evaluated using user-defined rules. *C#, .Net, IronRuby, NUnit, TDD, Continuous Integration*

NVerify An API library that wraps NUnit assertions in order to provide an expressive API for writing unit-tests. *C#, .Net, NUnit, TDD*

Technical Skills¹ 3 - Professional 2 - Working Knowledge 1 - Only studied/Rusty

| Languages | | Frameworks | Databases | Trends & Practices | Misc |
|---|--|--|---|--|---|
| <ul style="list-style-type: none"> • C#: 3 • Java: 3 • JavaScript: 2 • SQL: 2 • HTML: 2 • Ruby: 2 • C: 1 | <ul style="list-style-type: none"> • PHP: 1 • C++: 1 • VB.Net: 1 • Python: 1 | <ul style="list-style-type: none"> • ASP.Net: 2 • .Net: 2 • jQuery: 1 • Java EE: 2 • Rails: 1 | <ul style="list-style-type: none"> • MS-SQL: 1 • MySQL: 1 | <ul style="list-style-type: none"> • OO Programming: 3 • Automated Testing: 3 • Design Patterns: 3 • TDD: 2 • Virtualization: 1 • Continuous Integration: 2 • Functional Programming: 2 | <ul style="list-style-type: none"> • AJAX: 2 • Git: 3 • SVN: 2 |

Languages

Spanish (primary), English (fluent written and spoken).

Membership, Awards and Leadership

- Member of the Association for Computer Machinery (ACM) (Since Oct. 2011)
- PSP® Certified Developer, by the Software Engineering Institute (Since Oct. 2011)
- IBM® DB2 Academic Associate: DB2 Database and Application Fundamentals (Since Nov. 2012)

¹Technology with which I've only played with (very simple usage) is not listed here.