

# Diego Perez Botero

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## SKILLS

- **Fast Learner:** Has learned a completely new technology for every project (e.g. WinRT, OpenStack, OpenFlow, Xen, Android, Lucene).
- **Multifaceted:** Multidisciplinary perspective based upon a major in Civil Engineering and multicultural background.
- **Bilingual:** Spanish as native language, English spoken with same level of proficiency (117/120 TOEFL).
- **Meets deadlines:** Consistent academic performance throughout higher education and two consecutive promotions at Microsoft.
- **Public speaking:** Teaching Assistant in 10 opportunities.
- **Programming languages:** C++, Java SE, Java EE, Java ME, C, C#, SQL, Python, Android SDK, PHP, JavaScript.
- **Software packages:** Visual Studio, Eclipse, Netbeans, JUnit, SVN, PostgreSQL, MySQL, NOX Controller, Mininet, Open vSwitch, Git, Xen, KVM, OpenStack, QEMU, Libvirt, JBoss, Glassfish, Linux, Windows, Apache HTTP, Apache Lucene, Bizagi BPM, Poseidon UML, Visual Paradigm, Asterisk PBX.

## EDUCATION

<b>Princeton University</b> Princeton, NJ, U.S.A <u>GPA:</u> 4.0/4.0, <u>Thesis Grade:</u> A+	<b>M.S.E in Computer Science</b> <u>Thesis:</u> Pwnetizer - Improving Availability in Cloud Computing through Fast Cloning and I/O Randomization <u>Highlight:</u> <b>Modified large open source projects</b> (QEMU, Libvirt, KVM and OpenStack) and <b>Linux kernel modules</b> to support a <b>novel Live VM Cloning technique</b> aimed towards security. All programming in C, Python and Java. <u>Relevant Course Projects:</u> Live Migration of an Entire OpenFlow Network; Characterizing Xen Hypervisor's Attack Surface; Tonify: The <b>Tone-Conscious Search Engine!</b> ; FourthPartyMobile: A <b>Privacy-Aware Mobile Web Crawler!</b>	June 2013
<b>Universidad de Los Andes</b> Bogotá D.C, Colombia <u>GPA:</u> 4.75/5.0	<b>B.Sc. in Systems and Computing Engineering – Summa Cum Laude</b> Top 1% of the Engineering School's historic GPAs from the previous 5 years coupled with special personal merits. <u>Thesis:</u> VoIP Eavesdropping - A Comprehensive Evaluation of Cryptographic Countermeasures <u>Highlight:</u> Measured the performance of different <b>Voice-Over-IP protection schemes</b> . Published in ICNDC2011. <u>Relevant Course Projects:</u> zOMG!: <b>Mobile Zombie Game</b> written in Java ME	March 2011
<b>Universidad de Los Andes</b> Bogotá D.C, Colombia <u>GPA:</u> 4.74/5.0	<b>B.Sc. in Civil Engineering – Magna Cum Laude</b> Top 1% of the Engineering School's historic GPAs from the previous 5 years. <u>Thesis:</u> 2R Soft - Risk and Reliability Analysis Software ( <a href="http://www.2rsoft.tk">www.2rsoft.tk</a> )	September 2010

## RELEVANT EXPERIENCE

<b>Microsoft – Redmond, WA, U.S.A</b> <b>Software Engineer II</b>		July 2013 – Present
<ul style="list-style-type: none"><li>• Part of the Windows team that owns all core Windows Runtime (WinRT) Networking APIs used by Desktop/Phone/XBOX/Hololens apps, as well as some important Win32 components, such as the Background Intelligent Transfer Service (BITS) used by Windows Update, Cortana, Maps and Store.</li><li>• Dev owner of WinRT Sockets, WinRT BackgroundTransfer and BITS. <b>Successfully shipped several new features and performance enhancements in Windows 10, which are now running on tens of millions of devices worldwide.</b></li></ul>		
<b>PAYC S.A – Bogota D.C, Colombia</b> <b>Main Developer of Enterprise-Wide Applications</b>		May 2009 – August 2011
<ul style="list-style-type: none"><li>• Led the development of four different web applications (<b>36,000 lines of code</b>) with at least <b>300 unique daily users</b>, which support the processes associated with the management of <b>over 40 simultaneous construction projects</b>.</li><li>• <u>Technologies used:</u> Java EE, Java SE, SQL servers, Eclipse, JBoss Server, Netbeans, Glassfish Server, OpenOffice, Visual Paradigm.</li></ul>		
<b>Universidad de los Andes – Bogota D.C, Colombia</b> <b>Lead Software Developer for the 2R Soft Software Suite (<a href="http://www.2rsoft.tk">www.2rsoft.tk</a>)</b>		August 2009 – August 2011
<ul style="list-style-type: none"><li>• Developed a software suite in <b>Java SE</b> capable of carrying out advanced stochastic simulations and data, network and life-cycle analysis. Comprised of <b>54,500 lines of code</b>, it is <b>actively used by 170 graduate students</b> in various courses offered by the Engineering Faculty.</li></ul>		

## AWARDS

<b>Assistantship in Instruction in Natural Sciences and Engineering</b>	September 2011 and 2012
<b>“Ramón de Zuburía” Scholarship</b> (Best Cumulative GPA of Engineering School)	September 2008, 2009 and 2010
<b>“Academic Excellence” Scholarship</b> (Best Engineering School GPA of the semester)	September 2006 and March 2008

## OTHER EXPERIENCE

<b>Teaching Assistant for “Algorithms and Data Structures”</b> (Java-based)	Spring 2012, Fall 2012, Spring 2013
<b>Mentor in Summer Programming Experiences Program</b> (taught Android app development)	Summer 2012
<b>Teaching Assistant for “Introduction to Programming Systems”</b> (C-based)	Fall 2011
<b>Teaching Assistant for “Object-Oriented Programming and Algorithms 2”</b> (Java-based)	Spring 2009, Spring 2010, Fall 2010
<b>Teaching Assistant for “Data Structures”</b> (Java-based)	Fall 2009