

# Diego Perez Botero

19724 NE 181st Street | Woodinville, WA 98077 | www.diego-perez.com | diego@diego-perez.com | 609-439-2287

## SKILLS

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- **Fast Learner:** Has learned a completely new technology for every project (e.g. WinRT, OpenStack, OpenFlow, Xen, Android, Lucene).
- **Meets deadlines:** Consistent academic performance throughout higher education and four 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.

## EDUCATION

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

## RELEVANT EXPERIENCE

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- Microsoft – Redmond, WA, U.S.A** July 2013 – Present  
**Senior Software Engineer**
- 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.
  - Dev owner of WinRT Sockets, WinRT BackgroundTransfer and BITS. **Successfully shipped several new features and performance enhancements in Windows 10, which are now running on hundreds of millions of devices worldwide.**
- PAYC S.A – Bogota D.C, Colombia** May 2009 – August 2011  
**Main Developer of Enterprise-Wide Applications**
- Led the development of four different web applications (**36,000 lines of code**) with at least **300 unique daily users**, which support the processes associated with the management of **over 40 simultaneous construction projects**.
  - Technologies used: Java EE, Java SE, SQL servers, Eclipse, JBoss Server, Netbeans, Glassfish Server, OpenOffice, Visual Paradigm.
- Universidad de los Andes – Bogota D.C, Colombia** August 2009 – August 2011  
**Lead Software Developer for the 2R Soft Software Suite ([www.2rsoft.tk](http://www.2rsoft.tk))**
- Developed a software suite in **Java SE** capable of carrying out advanced stochastic simulations and data, network and life-cycle analysis. Comprised of **54,500 lines of code**, it is **actively used by 170 graduate students** in various courses offered by the Engineering Faculty.

## AWARDS

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

## OTHER EXPERIENCE

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