

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).
- **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

Princeton University Princeton, NJ, U.S.A <u>GPA:</u> 4.0/4.0, <u>Thesis Grade:</u> A+	M.S.E in Computer Science <u>Thesis:</u> Pwnetizer - Improving Availability in Cloud Computing through Fast Cloning and I/O Randomization <u>Highlight:</u> 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. <u>Relevant Course Projects:</u> 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!	June 2013
Universidad de Los Andes Bogotá D.C, Colombia <u>GPA:</u> 4.75/5.0	B.Sc. in Systems and Computing Engineering – Summa Cum Laude 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 Voice-Over-IP protection schemes . Published in ICNDC2011. <u>Relevant Course Projects:</u> zOMG!: Mobile Zombie Game written in Java ME	March 2011
Universidad de Los Andes Bogotá D.C, Colombia <u>GPA:</u> 4.74/5.0	B.Sc. in Civil Engineering – Magna Cum Laude Top 1% of the Engineering School's historic GPAs from the previous 5 years. <u>Thesis:</u> 2R Soft - Risk and Reliability Analysis Software (www.2rsoft.tk)	September 2010

RELEVANT EXPERIENCE

Microsoft – Redmond, WA, U.S.A July 2013 – Present

Senior Software Engineer

[March 2019 – Present]

- Tech Lead for Azure's Map of the Internet (MOI) team under Azure Front Door.
- Designed and extended client-side and server-side components that **collect and process 9+ billion internet performance measurements per day from Microsoft's end users, powering real-time monitoring scenarios for Microsoft's online properties (e.g., Sharepoint Online, Exchange Online, Microsoft Teams, Azure Front Door).**
- MOI's offline pipeline generates daily **performance routing maps used by Azure Traffic Manager to steer global Azure traffic.**
- Shipped **Azure Internet Analyzer** preview in time for Microsoft Ignite 2019.

[July 2013 – March 2019]

- 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)

- 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.