Eduardo Gutarra

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| **Email:** edvelez.g@gmail.com | **Phone:** (832)-520-3556 |

**Career Objective**

*Obtain a position where I can maximize my skills as a software developer or computer scientist.*

**Education**

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| **Research-based Master of Computer Science (MCS)** | University of New Brunswick Saint John, NB, Canada Thesis Title: Multi-column bitmap indexing Emphasis: Databases  G.P.A. 4.0 | Jan 2010 – Graduated May 2012 |
| **Bachelor of Computer Science** | EAFIT University Medellin, Antioquia, Colombia  Thesis: [Viper-SUGUI: A Simulator of P-Waves using Seismic Unix](http://code.google.com/p/viper-sugui/downloads/list). Developed a program to emulate the behaviour of P-waves as they travel towards the center of the Earth.  G.P.A. 4.3/5.0 | Jun 2009 |

**IT Skill set**

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| **Languages** | : | Unix Shell scripting (Bash), C#. NET, C/C++, Java, Latex, PHP, Ruby |
| **Databases** | : | SQL Server 2005/2008, MySQL |
| **Operating system** | : | MS Windows, UNIX, OSX |
| **Software Packages** | : | MS-Office, Visual Slickedit, Matlab, Seismic Unix |
| **Designing Tools** | : | Adobe Illustrator, Flash |

**Certifications**

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| **Certification on Foundational CS Courses—Industrial Perspective** | INFOSYS, Mysore, Karnataka, India  Emphasis: .NET technologies: ASP.NET, ADO.NET, C#.NET and the Visual Studio 2008 IDE. | Jul-Oct 2009 |

**Experience**

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| **TIBCO OpenSpirit** | 4800 Sugar Grove Boulevard #500,  Stafford, TX 77477 | Oct 2011 - Present |
| * Currently working on major updates to the Petra data connector. * Providing maintenance to the data connectors for IHS products: Kingdom and Petra. * Worked on the development and design of the Kingdom 2015 data connector. * Worked on updating code base of Geoframe’s Charisma data connector. * Worked in maintenance of the Openworks data connector*.* | | |
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| **Teaching Assistant** | University of New Brunswick Computer Science and Applied Statistics Department (CSAS) Saint John, NB, Canada | 2010-May 2011 |
| Assisted with instructional responsibilities for the following courses:   * Programming in Matlab * Programming in Java * Computer Science Concepts (Java) * Data Structures and Algorithms (C) | | |
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| **Software Engineer Intern** | ION Geophysical  Houston, TX 77449 | Jun 2008-Jan 2009 |
| * Created in C++ a command line utility for indexing trace header information. * Performed research on MySQL storage engines. * Deployed google-breakpad, a multi-platform crash reporting system. | | |
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| **Teaching Assistant** | EAFIT University  Medellin, Colombia | Jan 2007-May 2008 |
| * Assisted with instructional responsibilities for Compilers and Programming Fundamentals courses. | | |
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| **Web Developer** | Panagro S.A.,  Medellin, Colombia | Summers 2004-2010 |
| * Designed and developed various web applications and web pages. * Programmed macros in Visual Basic for Excel worksheets. | | |

**Publications**

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| Daniel Lemire, Owen Kaser and Eduardo Gutarra, “Reordering Rows for Smaller Indexes:  Beyond the Lexicographic Order”, *ACM Transactions on Database Systems*, (accepted June 4, 2012). |

**Honors and Awards**

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| Scholarship to UNB | 2010-2011 |
| Ranked 1st in INFOSYS Training Program’s Evaluations | Oct 2009 |
| GEMIS Award for undergraduate project called Viper-SUGUI | May 2009 |

**Associations**

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| Society of Exploration Geophysicists (SEG) | 2008-Present |
| Semillero de Investigación de Recuperación de Información (SIRI) | 2007 |

**Languages**

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| Fluent in Spanish in all aspects: reading, writing and speaking | 2010-2011 |

**References**

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| **Professor Daniel Lemire** | **Professor Owen Kaser** |
| Professor University of Quebec at Montreal  (UQAM) Montreal, Quebec, Canada phone: available on request e-mail: available on request | Professor University of New Brunswick (UNB)  Saint John, New Brunswick, Canada phone: available on request e-mail: available on request |
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| **Mr. Michael Beam** | **Dr. Herman Jaramillo** |
| Software Engineer ION Geophysical Houston, TX, USA phone: available on request e-mail: available on request | Senior Research Geophysicist ION Geophysical Houston, TX, USA phone: available on request e-mail: available on request |