May 10, 2011

ION Geophysical

2105 Citywest Blvd # 400

Houston, Texas 77042-2839

Dear Mr. ?:

Please accept the enclosed résumé as application for a position in the Research and Development department at ION. As my résumé outlines, I would bring a good balance of academic and work experience to your company.

Over the last year and a half, I have been a Master of Computer Science (MCS) student with emphasis in Databases at the University of New Brunswick (UNB) in Saint John, Canada. This academic experience has refined my skills for a career in software development or computational research.

My research interests include various methods for indexing large data warehouses. Since I was an undergraduate student, I have seengreat potential in how machines can aid research in various fields through Online Analytical Processing (OLAP). As the amount of information grows, better ways to analyze and access it become necessary. Scientists often need to analyze information gathered from different data sources, and when the amount of information is too vast, the information gathering process becomes slow. Often, the process is so slow that applications for data visualization take too long to support effective analysis. It is one of my career interests to address this problem through data warehouse techniques, such as indexing and view materialization. I am also interested in software engineering, especially in design aspects that allow building high performance software that is reusable and maintainable. From previous work during my undergraduate project, I also have an interest in wave propagation phenomena and their applications.

I am confident in my ability to make a strong contribution to the mission and goals of ION, and I would love the opportunity to discuss my abilities and experiences in more detail. Please contact me at 281-398-9692 to arrange an interview. Thank you in advance for your consideration.

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Sincerely,

Eduardo Gutarra Velez

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