

## RESUME

### ANSHUDEEP MATHUR

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### ACADEMIC PROFILE

Fall 2006 - December 2010

University of Guelph-Humber, Toronto, Canada.  
*Honours Bachelor Degree in Applied Computing and  
Diploma in Wireless & Telecommunications Technology*

Additional language skills:

Speak, read and comprehend German and Hindi fluently.  
Partly conversant with French.

### COMPUTER-BASED SKILLS

- ▶ **Writing clean PL/SQL code and optimizing SQL queries.** Expert level.
- ▶ **Quest's SQL Navigator and Toad, Oracle's SQL Developer.**
- ▶ **C++, Java, Ruby on Rails.** Intermediate level.
- ▶ **Configuring LAMP (and variations) and Apache modules.**
- ▶ **Python.** Intermediate level.
- ▶ **Coding in ASP/VB.** Limited .NET experience.
- ▶ **Developing Adobe AIR applications.** Using HTML/JS/AJAX, with SDK.
- ▶ **HTML, JS and CSS code.** Efficient, cross-browser compatible, accessible and mobile-friendly code.
- ▶ **Adobe Creative Suite.** Expert level.

### SELECTED PROFESSIONAL EXPERIENCE

#### Database Systems Developer, Research in Motion, Waterloo

January 2011 - present

<http://www.rim.com/>

- ▶ I help in leading a team of five developers with the aim of designing and developing large scale web applications for Business Process Modeling.
- ▶ Provide live support for business critical applications that are used by over four thousand internal users on a daily basis.
- ▶ Leveraging my technical background to assist developers with complex technical problems, including code optimization and debugging.
- ▶ Responsible for platform code review and deployment process, as well as maintaining platform stability.
- ▶ Optimized Oracle Text for business-specific needs resulting in improved result retrieval time for the bulk of search queries, from more than 30 seconds to less than two. The index searches across ~1.5GB of plain text data.

#### Junior Quality Analyst, 8 Months Co-Op, Research in Motion, Waterloo

16 Months over 2008-2010

<http://www.rim.com/>

- ▶ Worked closely within a small team of database architects and developers to manage and create a large variety of web-applications for use by over 2000 RIM employees on a daily basis.
- ▶ Completed a number of projects using Oracle Text, for both full-text searching as well as document classification.
- ▶ Worked with three other colleagues to revamp the internal security system which, in addition to being much more secure, allows tracking of resources and user activity.
- ▶ Developed and deployed a Blog-extraction application based on RSS feeds. Connected projects included pre-processing the data and creating a user-friendly interface (with advanced functionality).
- ▶ Developed Adobe AIR applications to speed up various tasks. The application's interface was designed in Photoshop; all functionality programmed using JS and HTML. Certain features were implemented to be only available when connected to RIM's internal network.
- ▶ Working in collaboration with fellow co-op students and staff to upgrade and redesign the internal QA Library website site, thereby increasing the speed of its operations significantly, and optimizing query performance for the Oracle 10g database.
- ▶ Utilized XML, XSL, HTML5, Python, PHP, Visual Mining NetCharts, SAS Enterprise Guide, SAS Text Miner, Oracle 11G, and a multitude of other technologies to develop web-applications for internal use.

#### Redesigned The Riverwood Conservancy Web site, Volunteer

Winter 2007 - Summer 2009

<http://www.riverwoodconservancy.org/>

- ▶ Worked with staff at the Riverwood Conservancy to completely re-architect their previously static Web site and convert it to use a content management system.

- ▶ Trained and instructed staff in a 6-hour session, as well as providing brief documentation and support, on how to use the CMS tool and integrate their own content correctly.
- ▶ The Riverwood Conservancy's Web site has been featured on TYPOLight's showcase and has received praise from its Board of Directors.

**Creating The Illuminated Plant Cell: A novel web-resource for education and research. Winter 2007/2008**

<http://www.illuminatedcell.com/>

- ▶ Designed and customized a free online resource for biology students and researchers providing them state-of-the art information on advances in modern plant sciences. Article contributors include leading International scientists.
- ▶ Utilization of TYPOLight as the CMS tool, but with extensive custom coding to incorporate various forms of multimedia, while maintaining a simple interface for the content owners.
- ▶ The Web site receives over 1000 page views weekly, from all over the Globe, with over 60% of the visits being completely new (Google Analytics).

**Part-time position in IT Project Mgt. & System Services Dept. TDSB, Toronto Summer 2007 - Summer 2008**

<http://www.tdsb.on.ca/>

- ▶ Successfully completed more than 15 projects that directly impacted the Toronto District School Board (TDSB) and its students over the course of the Summer.
- ▶ Designed, programmed and successfully carried out the launch of the redesigned TDSB public and internal home page which caters to around 160,000 visitors every month. This work was done in co-operation with individuals from more than 4 departments.
- ▶ Programmed the majority of the "Living and Learning Together" campaign Web site [<http://www.learnaltogether.ca/>] whose advertisements ran for a short period on public transportation and on billboards across Toronto.
- ▶ Researched and incorporated Google Maps into the existing School profiles using Google's API. Also used AJAX extensively when possible in order to speed up and simplify applications.

**University-related projects**

**July 2004 - ongoing**

- ▶ Designed, assembled content for and programmed more than six Research-related Web-sites for three well-known Universities. Websites include:
  - ▶ *Winter '08* - The Plaxton Lab, Queen's University
  - ▶ *Summer '07* - Biomedical Photonics, University of Manitoba
  - ▶ *Fall '08* - Wireless Networking and Mobile Computing Research Lab, University of Guelph
  - ▶ *April '07* - Paleoclimate and Geobiology Research Group, University of Toronto
  - ▶ *November '06* - The Gradinaru Lab, University of Toronto
  - ▶ *Summer '06* - MEDCRT Website and Layout Design, University of Toronto
  - ▶ *Summer '05* - Nano-Microscopic Biological and Medical Physics Lab, University of Toronto
  - ▶ *July '04* - Laboratory of Plant Development & Interactions, University of Guelph

**Designing, creating and maintaining the ITC Alumni Webpage, Volunteer**

**January 2004 - Summer 2007**

<http://www.itcalumni.org/>

- ▶ Forged a web-forum for alumni of the International Training Course, Biological Research Center, Szeged Hungary.
- ▶ Worked with a team of four former ITC fellows to bring the original idea to live.
- ▶ A Symposium resulted from this site, which was held in October 2006 in Szeged, Hungary and involved more than 300 scientists from around the globe.
- ▶ The page is now officially sponsored and supported by BRC, Szeged, Hungary.



**HONORS/AWARDS**

- ▶ **1st place** in The Toronto Star High-school newspaper contest for both the "Electronic Newspaper, Layout and Design" and "Best Electronic Newspaper" categories for Jarvis Jargon, 2006.
- ▶ **1st place** and **2nd place** in The Toronto Star High-school newspaper contest for the "Best Electronic Version" and "Overall Electronic Newspaper Version", respectively for Jarvis Jargon, 2005.
- ▶ **1st place** in Siemens JoinMultimedia 2003 Europe-wide competition shared with PAAC Media EyeVision teammates. Earned a position in Siemens JoinMultimedia "Hall of Fame" 2003.

**REFERENCES**

References are available upon request.