

# Vikas Verma

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## OBJECTIVE (Change)

Seeking opportunity in area of software development; thereby using my technical knowledge and project experiences towards organizations development and better solution development.

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## SKILLS (Levels: P-Proficient, I-Intermediate, N- Novice)

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|-------------------------|------------------------------------|-------------|--------------------------------|
| • Programming Languages | : C [P], C++ [I], Java [I], C# [I] | • Databases | : MySQL[P], Oracle [I], DB2[I] |
| • Web Technology        | : XML[I], CSS[I], ASP.net[I],      | • Tools     | : Weka[I], Eclipse[I]          |
| • Operating System      | : Windows[I], Ubuntu[I]            |             |                                |

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## WORK EXPERIENCE

### System Configuration Specialist

[June `11 – July `12]

AON Hewitt, Noida

- Developed health and benefits plan, rules on Hewitt's internal system for the client, managed their internal database of employees and the help them planning and managing their benefits
- Developed various modules and carried out unit and regression testing.

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## EDUCATION

- **Masters of Technology** [Information Technology with Database and Information Systems] [2012 – `14]  
International Institute of Information Technology Bangalore, CGA = 3.15/4.  
**Courses:** Web Information Retrieval, Machine Learning, Usability Engineering
- **Bachelor of Technology** [Computer Science Engineering] [2007 – `11]  
Lovely Professional University, Phagwara, CGA = 8.51/10.  
**Courses:** Data Structures, Algorithm, DBMS, Operating System

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## BEST OF PROJECTS

- **Application specific OS for lightweight virtual machines** [Jan-May 2013]  
**Team Size:** 4, **Technologies:** Oracle Virtual Box **Role:** Defining Architecture, Identifying Dependencies, Persisting user data and settings
  - > Created two portable “.OVA” that can be imported to build a virtual machine on top of hypervisor, One with E-Links (network intensive) another with AbiWord (non-network intensive) application, by stripping down Tiny Core Linux.
  - > loading comparatively less number of modules at runtime, decreased boot up time, low hardware requirement, isolated users from installation of new feature
  - > Size of Elink.ova 10.4 MB, Boot up time ~ 3 seconds
  - > Size of AbiWord.ova file 35.8 MB Boot up time ~ 5 seconds
- **Fraud Detection on Online Transaction Dataset** [Aug 2013-till date]  
**Team Size:** 4, **Technologies:** WEKA, **Role:** Team Lead, Defining approach, Understanding and analyzing results
  - > Balancing highly imbalance dataset of online-transactions (SMOTE)

- > Solution approach included both clustering and classification techniques
- > Using clustering approach achieved 97%-3%, Using Classification approach achieved 98%-2%

- **Virtual file System**

[Aug-Nov 2012]

**Team Size:** 3, **Technologies:** C, **Line of Code** > 4K, **Role:** Designed Architecture, Implemented N-ary tree for directory structure, BST for file path, Hash Table to search file by name

- > Developed an abstraction layer on top of a concrete file system
- > Provides the ability to manage files and folders in uniform way across different type of concrete file system
- > Divided file system in 3 layers viz., Meta header, Header (File Descriptor), Data block
- > Initially provided continuous storage later introduce non-continuous storage using Linked List concept
- > Created Shell interface specific to our virtual file system

- **Common web portal for faculties and students**

[Aug-Dec 2010]

**Team Size:** 4, **Technologies:** ASP.net, C#, MS SQL Server **Role:** Team Lead (Defined Architecture, Contributed 10/15 module)

- > 25 Stored Procedures, 15 Database tables, 8 triggers
- > More than 15 modules, implemented all the basic and important features necessary for public portals
- > Maintaining different copies for uploaded images for different purpose

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## ACHIEVEMENTS

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- Certified for IBM Database Associate DB2 9 Fundamentals, in year 2010

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## EXTRA-CURRICULAR ACTIVITIES

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- Selected in final round (in progress) Among top 20/237 in IBM ICARE National Technical Challenge 2013
  - Organized Basketball event at Spandan 2013, IIITB
  - Presented project Smart City (Eclipse, IBM DB2) in IBM The Great Mind Challenge 2009
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