# Vaibhav Jain

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## Objective

To utilize my skills for development, offering responsibilities and to work hard in a highly competitive environment to seek new situations, pursue adaptability and maximize my share of experience thus developing a phenomenally successful attitude towards living on the edge and become globally in demand.

## Education

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| July 2013 to present | B-Tech (Information technology) – 6th Semester<br>Indian Institute of Information Technology, Allahabad | 9.45/10 |
| 2012-2013 | Higher Secondary Certificate - class XII<br>City Montessori School, Lucknow - Board CISCE | 96% |
| 2010-2011 | Secondary School Certificate - class X<br>City Montessori School, Lucknow - Board ICSE | 92.14% |

## Industrial Training

Certification in Android App Development from UPTEC Computer Consultancy Ltd. Lucknow. The vocational training included teaching the basic aspects of app development along with development of various basic apps using Eclipse IDE.

## Projects Undertaken

**Time Table Management Software – 6th Sem Mini project [IIIT-Allahabad, under Dr. K.P. Singh] (ongoing project)**
Time table allotment is a NP Complete problem that need to be solved using constraint satisfaction. This project is being implemented without using backtracking and optimized using neural network optimization (Hopfield Neural Network).

**Chat Application – 5th Sem [IIIT-Allahabad, under Dr. Jagpreet Singh]**
This was given as a Lab assignment, aimed at making a chat client (chat software) which could handle multiple users for group chat. Special things included database to maintain credential of users, SSL encryption on the packets transferred and any user can disconnect at any point of time.
Tools/Languages/IDE Used: NetBeans IDE 8.0 , Java Swing for making the GUI, Java Socket etc.

**Financial forecasting using Support Vector – 5th Sem Mini Project [IIIT Allahabad, under Dr. K.P. Singh]**
The aim of this project was to forecast the stock prices of various stock prices using the principles of Support Vector Machine Classifier and Support Vector Regression and analyse the predictability and dependence of stock market on various factors. This project helped to expand my skill set towards Machine Learning techniques and introduced me to the concept of Support Vector Machines. I played the part of algorithm designer & results analyser in this project. MATLAB was used for SVM tools and techniques in back-end and curve fitting in Matlab for anaylsis of results.

**University Management System – 4th Sem [IIIT Allahabad, under Prof. Dr. O.P. Vyas (Dean, R&D)]**
The design phase of this web based project allowed me to delve further into the concepts of database management and object oriented design. The development phase allowed me to explore the aspect of security of web based portals.
Tools/Languages/IDE Used: HTML, PHP, MySQL.

**Implementation of HEFT Algorithm – 4th Sem [IIIT-Allahabad, under Dr. Jagpreet Singh]**
I was part of the 2 member team. My role was to understand the algorithm and implement it in an object oriented programming language (JAVA) and in a functional programming language (CLISP).
Tools/Languages/IDE Used: LISP, JAVA, CLISP, NetBeans IDE 8.0.

**Android based App Development [ Industrial Training]**
Development of a Bluetooth Chat Application. Two users can chat at a time on their smart phones just by making use of their device's Bluetooth facility.
Tools/Languages/IDE Used: JAVA, Eclipse

**Online Shopping System – 3rd Sem [IIIT Allahabad, under Prof. Dr. O.P. Vyas (Dean, R&D)]**
I was part of the group and my role (along with others) was front end designing and database management. Worked with Java Swing. Moreover the process of designing the software further strengthened my concepts of Object Oriented design.
Tools/Languages/IDE Used: JAVA, MySQL, NetBeans IDE 8.0, Swings.

## Skill Set and Interests

- Programming Languages : C (Intermediate), C++ (Intermediate), Java(Intermediate - including JavaFX, JavaScript, jQuery, Java swing), SQL, HTML, PHP, R, CLISP(basics), Android App Development.

- Operating systems used : LINUX (Ubuntu, Fedora), Cent OS, Windows.

- IDE Used : Dev C++, CodeBlocks, NetBeans IDE, Oracle, MATLAB, Wireshark, MySQL, WAMP, Eclipse.

- Area of Interest: Data Structures and Algorithms, Database Systems, Android App Development.

## Accomplishments

- Cleared Zonal Informatics Olympiad (ZIO) in 2012.
- Part of the team for Quanta (Annual International Fest of CMS Chowk) in 2012 and won 3 prizes.
- Stood 3rd in MATH.COM, an event of the International Computer Olympiad - COFAS in 2012.
- Cleared Regional Mathematics Olympiad (RMO) in 2011.
- Won bronze medal in International Young Mathematics Olympiad (IYMC) in 2010.

## Extra Curricular Activities

- Attended workshop on Android App Development at MNNIT Allahabad.
- Attended workshop on Ethical Hacking at IIIT-Allahabad.
- District level Table Tennis Player in 2009.

## Related Coursework

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| Data Structure and Algorithms | Database Management System |
| Artificial Intelligence | Object Oriented Methodologies |
| Operating Systems | Design and Analysis of Algorithms |
| Theory of Computation | Networking |
| Principles of Programming Language | Software Engineering |
| Compiler Design | Data Mining |