



RAJAT GUPTA

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Profile Summary

- B. Tech. student at IMS Engineering College, Ghaziabad, UP, to be completed in JUNE, 2015
- **Open Source Programmer** and love open source projects
- Worked on **more than 10 Independent projects/mini projects** during my academic session
- MOOC Certificates on **Algorithms, Interactive Programming in Python, Compiler** and more
- Good knowledge of **C, C++, Python** and **Oracle 10g Database**
- Participated in Various **Online Coding Competitions** and doing coding on various coding sites such as **SPOJ, HackerEarth** etc.
- Implementing the **Compiler** for the Classroom Object Oriented Language as my Final Year Project
- Implemented the **Wikipedia Suggestions App** in Scala 2.10 using Rx Framework
- Strong Programming Skills with **Data Structures using C++**
- Microsoft Technology Associate(MTA) certification in **Database Administration Fundamentals**
- Certified as **Microsoft Certified Professional(MCP)**
- Eligible for Software Engineering Jobs according to **AMCAT 2013**
- Leadership and Teamwork skills demonstrated through the **Team Leader of Final Year Project**
- Having more than 15 MOOC certificates describes the **organizational and Problem Solving Skills**
- **Communicational Skills** are cemented through presenting videos and discussing the topics on various programming languages on my blog
- **Problem Setter** and **Problem Tester** for **HackerEarth**

Languages/Software

- **Experienced:** C, C++, Python
- **Proficient:** Tryton, Java, BASH, Flask
- **Prior Experience:** Scala, HTML, Java Script, CSS, JSP, XML
- **Databases Used:** Oracle 10g, MySQL 5.6, Microsoft SQL Server, Postgres
- **Tools Used:** Eclipse, Net Beans, Code Blocks, Git, Sphinx

Operating System

- Windows xp / 7 / 8, Ubuntu, Debian, Open Suse, Linux Mint, Ubuntu Ultimate

Area of Interest

- Designing and Analysis of Algorithms

Experience

Software Developer Intern Openlabs Technologies Jan 2015 – Present
Working as Python Programmer and developing ERP systems in python. Also developing Web Applications with high scalability. My major role is:

- Develop ERP systems
- Develop Web Applications

Project Trainee Shreyanshi Consultancy June 2014 – July 2014
Two months summer training JSE7 involves activities:

- Learn new things about JSE7
- Develop the project on JSE7

Projects

[1] Employee Enrollment System Feb 2015
A simple application built on Flask and Tryton to enroll and manage the records of the employee coming to any organization. The database used is Postgres. My major was to design Tryton modules and monitor all processes.

[2] COOL Compiler April 2014 – March 2015
Building the lexical analyzer (Lexar), Syntax Analyzer (Parser), Semantic Analyzer and Code Generation phase of the compiler built for the language Classroom Object Oriented Language (COOL) in C++ in Linux Operating System.

[3] JavaG June 2014 – July 2014
In this various games are implemented such as "Shooting Game", "Rice Paper Scissors" and "Matching Game" in JAVA 7 using the applet. The IDE is used in this project is BlueJ.

[4] NotePro June 2014 – July 2014
Developed the simple Text Editor using the Java Applets in JAVA 7 as the part of my summer training Project. The text editor performs Edit (Cut, Copy and Paste), Find, Save, Save As functions. The components of editor were designed using JAVA Swing.

[5] Game Development in Python 2.7

Oct 2013 – Dec 2013

Various games built in Python 2.7. Some names of games are Ping Pong, Rice Rocks, Blackjack, Memory Game, Stopwatch Game etc. The games were built on www.codeskulptor.org.

Project URL: <http://tinyurl.com/ldkhpvb>

[6] Wikipedia Suggestions Application

Dec 2013

This application is built on Scala 2.10 and used the Rx Framework of Scala. In this app user can give input into the search box and get the result from Wikipedia.

Project URL: <http://tinyurl.com/kf5gk5p>

[7] ModC Sort Algorithm

Oct 2012

It is the modified form of Count Sort Algorithm. In Count Sort two additional buffers are taken and there must be a range of values presented but in this algorithm these drawbacks are removed and it reduces the extra use of memory.

Mini Projects

SNo	Project Name	Tools/Technology Used
1	User Info Portal	Flask, Postgres
2	Simulator	Scala
3	Quiz Master	Flask, Postgres
4	Test Gen	Python
5	MyBot	Flask, Postgres

Certifications

SNo	Certificate Name	Grade	Provider
1	Algorithms : Design and Analysis Part 1	78%	Coursera
2	An Introduction to Interactive Programming in Python	96.9%	Coursera
3	Functional Programming Principles in Scala	86.6%	Coursera
4	Introduction to Reactive Programming	97.1%	Coursera
5	Computer Networks	91.3%	Coursera
6	Compilers	100%	Coursera
7	Concepts in Game Development	100%	Open2Study
8	Data Structures and Algorithms	NA	NIIT Ltd.
9	Introduction to Computing(JAVA)	70%	edX
10	MTA : Database Administration	82%	Microsoft
11	Programming for Everybody(Python)	100%	Coursera
12	The HW/SW Interface	88.1%	Coursera
13	Pattern Oriented Software Architecture	90%	Coursera

Certificates Link: <http://tinyurl.com/ksybnsr>

Education

Bachelor of Technology **IMS Engineering College** **2011-Present**

My field of Study is Computer Science & Engineering and major subjects are Data Structures, Databases, Algorithms, Computer Graphics, and Object Oriented Techniques using UML, Operating System, Compiler Design, Computer Networks, Software Engineering, and Web Technology. I have also attended VAP lectures at IMS Engineering College. I have **77.93%** marks till 6th semester.

Intermediate (10+2) **Alma Mater Sr. Sec School** **2009-2010**

Completed with overall **76%** marks. Major subjects were Physics, Chemistry, Mathematics and Computer Science. I learnt SQL which raised my interest in Databases. I also learnt basic fundamentals of C++ during my Intermediate which motivates me for the Coding and Development.

High School **Shri Shankar Mumukshu Vidyapeeth** **2007-2008**

Completed with overall **75%** marks. Major subjects were Mathematics, Science. I also learnt HTML for Web Development as a part of my academic curriculum and I also participated in lots for Painting Competitions. Making web pages in HTML raised my interest in computer science.

Honor and Awards

- Runner Up of the RTFEM – 2012 on presenting the technical paper on proposing of **modC Sorting Algorithm**.
- Winner of Project Presentation in 2014 on presenting the project of the **COOL Compiler**.
- Eligible for Software Engineering Jobs according to **AMCAT Employability Test 2013**
- Winner of various art competitions at school and state level.
- Attended the **International Conference on Advances in Computer Engineering and Applications** held in IMS Engineering College.
- Attended **Java Virtual Day 2014** organized by **Oracle Corporation**
- Attended **Workshop on Android** by NIIT Pvt. and CMC Ltd.
- **Ranked #155** in **Code Cyphers 2.0** on HackerEarth
- **Ranked #165** in **August Easy Challenge** on HackerEarth
- Attended webinar on **Why Relying on MySQL Enterprise Edition?** Organized by **Oracle Corporation**
- **Ranked #588** in **Ad Infinitum – Math Programming Contest September'14** on Hackerrank
- **Ranked #125** in **Code Cyphers 4.0** on HackerEarth
- **Certificate of Merit** from **Naukri.com** in Aptitude Test
- **HackerEarth Campus Ambassador** for year 2015
- **Ranked #01** of **Infinity#01** on HackerEarth
- **Ranked #40** on **Druva Development Engineer Challenge** on HackerEarth

Personal Details

- **Date of Birth** : JUNE 07, 1994
- **Gender** : Male
- **Marital Status** : Single
- **Languages** : English, Hindi
- **Nationality** : Indian
- **Willing to Relocate** : Yes

References

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