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Abhishek Verma

Education

2013–2018 **Dual Degree B.Tech.(IT) and M.Tech.(SE)**, Indian Institute of Information Technology, Allahabad.
CGPA: 8.40

2012–2013 **HSC**, C.B.S.E, Stephen's International Public School, Jammu.
Percentage: 91.0 %

2010–2011 **SSC**, C.B.S.E, Army School Damana, Jammu.
CGPA: 10.0

Awards & Accomplishments

2017 Secured **11th** rank in India and **79th** rank worldwide in the July 2017 Google Kickstart Competition.

2017 Awarded certificate for development of IIIT Allahabad's Examination Cell Software Portal.

Work Experience

Student Software Developer

2016 Examination Cell Department, IIIT Allahabad (Period: Jan - July)

Relevant Projects

Jan 16–May 17 **Automation Project for Examination Cell**: I implemented the automation of various examination cell and college processes like admission of students, ID card generation, grade card and transcript generation, marks upload portal for faculty and their amalgamation for creating the result for a particular semester, fetching student details and other processes. Languages used were HTML5, CSS3, PHP and Javascript. The system was deployed on CentOS and security was implemented using SELinux and iptables.

June–present 17 **Spark deployed on OpenStack Cloud for Biological Data Analysis**: Biological data is always huge and hard to analyze, but Spark provides large-scale data processing and performs better than Hadoop. I have implemented various tools like extracting PDBs from coordinate files, average structure of proteins, RMSD for proteins and other tools.

Jan–May 17 **Cloud Service for Evaluating Company Performance**: I implemented a cloud service that evaluates performance of a company based on the data of their stocks for the previous year. The service is a collection of Java servlets with embedded Tomcat deployed online using Heroku platform.

Jan–May 17 **P2P file sharing system using Python**: I implemented a P2P file sharing system employing complete binary tree topology for nodes using socket module of Python. The insertion and deletion of nodes and file sharing between nodes was successfully implemented. It was tested for up to 100 nodes and successfully transferred files between the nodes. Insertion and deletion of nodes was also successful.

Skills and Interests

Operating Systems: Linux(Ubuntu & CentOS) and Windows

Cloud Technologies/Services: Spark, Nova, Swift, Neutron

Cloud Operating System: OpenStack Ocata

Cloud Platform: Heroku

Programming Languages: C/C++, Java, Python, Shell, MATLAB, SQL, R

Web Development: HTML5/CSS3, PHP, Javascript

Libraries: scikit-learn, pandas, ntlk

Visualization Tools: ggplot2, matplotlib, seaborn, Cytoscape, Gephi

Other Tools: git, LaTeX, RStudio, Adobe Audition, Adobe Photoshop

Office Work: MS Word, MS Excel, MS PowerPoint

Academic Interests: Machine Learning, Databases, Distributed Computing, Operating Systems

Hobbies and Extra-Currics

- Rubik's Cube (can solve within 30 secs and happy to give a demo!)
- Singing
- Guitar
- Photography
- Writing (songs and short stories)
- Quizzes
- Participated in a college play
- Participated in a literary event(*shayari*)
- Penned newspaper article for college festival