

Shivam Agarwal

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<http://shivam-agarwal.github.io/>

"Knowledge may have limits, but creativity does not!"

Education

- 2013–Present **M. Tech**, International Institute of Information Technology, Bangalore, – 3.3/4.0.
- 2007–2011 **B. Tech**, United College of Engineering & Research, Allahabad, – 74.25%.
- 2007 **CBSE XII**, Tagore Public School, Allahabad, – 86.60%.
- 2005 **CBSE X**, Bethany Convent School, Allahabad, – 87.20% .

Work Experience

- July 2011 **Systems Engineer**, INFOSYS LTD., Chennai.
- June 2013 Involved in automating application process for customers of RBS. Used IBM Websphere product - WAS for deployment as platform.

Achievements & Activities

- January 2015 **ISEC 2015, Student Volunteer.**
Volunteered for the 3 day conference of India Software Engineering Conference Bangalore (ISEC) - 2015.
<http://isoft.acm.org/isec2015/>
- September 2014 **Amex Hackerrace 2014, Second runner up in Amex contest.**
Amex organized an inter college coding competition. The problems consisted of algorithms and data mining category. Successfully bagged third position overall and stood first in IIIT-B.
- June 2014 **Speaker, Google Cloud Month - GDG Bangalore.**
Speaker for a day long workshop on Google Cloud Technologies organized by GDG Bangalore. Discussed and implemented various scenarios on GAE, Datastore and Blobstore for audience having on an average 5+ years industry experience.
<http://gdgbangalore.blogspot.in/2014/06/workshop-on-google-cloud-by-gdg.html/>
- Oct. 2013 - **IIITB GVCL Member, Graphics-Visualization-Computing Lab.**
Present GVCL focusses on application of contemporary technologies in areas of Graphics, Visualization and Computing. I am involved in Visualization project for EMC², configuration and maintenance of the server system.<http://www.iiitb.ac.in/GVCL/GVCL.html>
- July 2014 **Social Activity, Serve Happiness Bangalore chapter.**
Commencing Serve Happiness Bangalore chapter in IIITB to promote people for contributing in NGO's. Visited GOONJ, donated clothes and organizing collection drive on college level next month.
- Feb. 2014 **Volunteer, IIITB Spandan.**
Volunteer for IIITB Spandan IT department. Responsible for handling Web portal, provide robust solution and maintain transparency in process.
- 2013 **AIR 273**, All India rank of 273 out of 2,24,160 candidates in **GATE 2013..**

- Dec. 2010 - **ESOSC**, *Engineers Society for Open Source Computing*.
July 2011 Co-founder of ESOSC. Organized Active Learning Sessions for students which aims to spread knowledge on Free and Open Source Culture, contemporary technologies, areas of research and application of ideas.

Projects

Academic Projects

- January 2015 **Visualization of Hard Clustering of Document Collections**, *supervisor- Prof. Jaya Sreevalsan Nair*.
- Present
Given a document collection what are the different clustering algorithms we can perform, what are the various visualizations we can use to explore the document collection.
PYTHON, SCIKIT-LEARN, VISUALIZATION, D3.JS, MACHINE LEARNING
- May 2014 - **Network Data Visualization for Security**, | $EMC^2 - RSA$.
January 2015 Investigated, identified and implemented effective and intuitive visualizations of security analytics, ensuring that the Working enterprise security incident response teams can not only consume the security analytics results, but also make better informed decisions with regard to its correctness and criticality. <http://www.sec-viz.appspot.com/>
HTML5, D3.JS
- January 2014 **Crowd-sourced Interactive Real-time Educational Game on Android**.
- July 2014 An engaging live quiz game in Android where players can add questions and compete against one another in real time.
<https://play.google.com/store/apps/details?id=com.appspot.iitb.quiztime/>
GOOGLE APP ENGINE, MOBILE BACKEND, GOOGLE CLOUD MESSAGING, ANDROID
- May 2014 - **Parallel k-means Clustering on Image**.
June 2014 A parallel computing implementation for image segmentation using k-means clustering algorithm. Speed-up of 1.67 (average) was achieved on Core2Duo machine for different types of images and segments.
C, OPENMP, PARALLEL COMPUTING
- Sep. 2013 - **Dial A Ride**.
Dec. 2013 Optimizing schedules of taxi, so that they can be shared among passengers which in turn is economical to passenger via sharing while enjoying comforts of a taxi.
JAVA, HEURISTICS, ALGORITHM

Hobby Projects

- Oct. 2013 - **Project Compendium** .
Dec. 2013 Project Compendium aims to gather information related to projects from different universities. One can upload the Project details just by signing in with their gmail account. It provides a visual way to analyse it which helps in strong decision making by higher level authorities.
<http://gcdc2013-projectcompendium.appspot.com/WelcomeGuestAction>
GOOGLE APP ENGINE, STRUTS2, DATASTORE, HTML5
- Jan. 2014 - **IITB Spandan**.
March 2014 Annual Sportsfest in IITB.A web registration & information portal. Some issues which were required to be addressed - simple, scalable and stable architecture to handle peak loads and easy upload of results. My duties were to host the site on Google Cloud, manage availability and security. <http://iitbspandan.appspot.com/>
GOOGLE APP ENGINE,STRUTS2, HTML5, JQUERY

Computer skills

Languages C(moderate),C++, Java

Web Prog. J2EE, HTML5, JSON, JQuery, Struts2, d3.js

Database MySql, DataStore

Technologies Google Cloud Technologies - GAE, Computing Engine, GCM and Cloud Endpoint.
Shell scripting, JSP, L^AT_EX