

## Sagar Nitin Raut

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### Education

#### Georgia Institute of Technology

College of Computing

Masters of Science in Computer Science,

Specialization in Human-Computer Interaction (August 2013 – (expected) December 2014)

#### Don Bosco Institute of Technology

University of Mumbai, Mumbai, India.

Bachelor of Engineering in Computer Engineering (2008-2013)

### Skills

Languages:	JAVA, Python, PHP, Javascript, CSS, XML, Processing
OS:	Linux: Debian based distributions ,RadHat & Archlinux, Windows: 7 & XP
Applications:	Adobe Photoshop, Adobe InDesign, Adobe Dreamweaver, Adobe Flash with ActionScript, Basic AutoCAD, Balsamiq mockups
Databases:	MySQL, Oracle SQL, DB2
Toolkits :	Android development environment, Java Swings, WXPYthon
Version Control:	Git & GitHub
Others:	Joomla & Wordpress as CMSes R for statistical analysis Lua Scripting, Bash scripting

### Projects

Computer Graphics	Developed a single player squash game in Java controlled through the mouse, using the swing & image libraries (2011)
Cloud Computing	Creation of a private cloud in the college laboratory, based on Ubuntu-linux using Eucalyptus package.(2010-2011)
Web application	Conceptualized, designed & coded massively multiplayer online “virtual stock market” game based on dynamic web technologies. Used Javascript & JQuery library to create an interactive front-end, while backend was implemented using PHP & MySql(2012)
Mobile application	Created a mobile platform for dissemination of information for the NGO Project Chirag. The interactive Android app pulled updates from a web server, and dynamically displayed information , pictures and videos. It also provided the functionality to provide feedback.(2012)
Ubiquitous Computing	As the final year project, we intended to perform research on making a lab Context aware using sensor networks & mobile access. Developed a comprehensive web backend using HTML, PHP, JSON and Python to access & visualize the collected data. (June 2012 - April 2013)
Information Visualization	“Safe passages”. This project aims to change the way crime and accident data is visualized by moving the focus to the specific routes a user can take through the city. We plan to display crime information to a user along a route, or series of waypoints, along with contextual information about the types of crimes that occur along it.(August 2013- present)
User Interfaces	We proposed to design tangible interaction techniques for exploring and analyzing the complex relationships that exist in multivariate data. Currently implementing the system using tangible object & image recognition libraries. (August 2013- present)

## **Presentations:**

### **Augmented reality in mobile devices**

This review paper was a study of current augmented reality technologies, their applications in the future and security concerns. Presented at various technical paper presentations. (2011-2012)

## **Seminars & Workshops:**

- Virtualization : This presentation was presented for a class of 70, to acquaint them with the technology(2010)
- Conducted many workshops on Design using Adobe Photoshop. (2011-2012)
- Conducted a workshop on Linux (Ubuntu, Mint & Red Hat distributions) under ACM DBIT Student chapter. (2011)
- Conducted workshops on creating applications for the Android platform, under the department of Computer engineering,DBIT and ACM-DBIT student chapter (2012)
- Conducted a workshop on wireless networking technologies and configuration of access points to a class of 70 (2012)

## **Campus and Community Involvement**

- Co-editor of the Computer Department's newsletter, January 2011
- Design head of the ACM student chapter, 2011-2012
- Design head for Colosseum 2012
- Technical head of ACM student chapter, 2012-2013
- Head of the ACM chapter's development team, 2012-2013
- Developed the CD interface for Java & OOSE courseware which will be used by Don Bosco Institute of Technology as an education tool for the students
- Developed a website Careerscope which is used by DBIT as a tool for guiding students with regards to their careers & was the administrator of it.