SANTHOSH KUMAR BALAKRISHNAN | 18 Jan 1990
4105 Pine Street Apt 3 | Philadelphia | PA 19104
+1 (215) 407 3352 | bsanth@seas.upenn.edu | http://lifeuniverseandeverything.in

ACADEMIC QUALIFICATIONS	1. **Master of Science in Engineering , Major: Computer and Information Sciences** **May 2013** University of Pennsylvania, Philadelphia, Pennsylvania. CGPA: 3.49/4.00 Subjects taken: Analysis of algorithms, Database and Information Systems, Software Engineering, Internet and Web Systems, Software systems, Embedded systems programming, Human Computer Interaction. 2. **Bachelor of Technology, Major: Computer Science and Engineering** **May 2011** Amrita School of Engineering, Coimbatore, India. CGPA: 8.25/10.0
TECHNICAL PROFICIENCIES	▪ C,C++,Java/J2EE, HTML/CSS, JavaScript, JQuery, PHP - MySQL, JSP, AJAX ▪ Certified in Hardware maintenance and servicing, Networking and Core Java
EXPERIENCE	**Technical lead(Intern), ABID Technology** **May 2012 to Aug 2012** ▪ Helped build a tool which lets users purchase what they see in a video, from within the video. Also, as the technical lead, helped other interns solve problems from the technical front. **Website Assistant, Van pelt Library, University of Pennsylvania** **Sept 2011 to Oct 2011** ▪ Implemented a book locator which makes finding books in a library easier by showing the location of a specified book graphically, and performed routine maintenance work. **Traceability Matrix Automation System - MindTree Remote Internship Program** **Sept 2009 to Nov 2009** ▪ Created a web platform for tracing requirements to the related software engineering documents created by the organization. ▪ Implemented using JSP, AJAX and Oracle 10g. Worked in the Netbeans environment. **Instructor** ▪ Conducted two 5-day workshops and helped students learn HTML/CSS, JavaScript, PHP-MySQL and gave an introduction to web hosting services.
RESEARCH / ACADEMIC PROJECTS	**iAccess - Web Navigation for the visually challenged - http://bit.ly/iAccess** **Jul 2012 to Aug 2012** ▪ Developed a plugin which can read aloud and make an HTML 5 webpage navigable using just 4 keys and also incorporated voice commands. Objective was to make the tool easy to learn and use. **Project Hitchhiker - Search Engine - http://lifeuniverseandeverything.in/hh** **Apr 2012 to May 2012** ▪ Implemented a scalable distributed crawler that runs on Amazon EC2 instances and uses FreePastry for coordination ▪ Developed an indexer and a PageRank engine that is based on Elastic MapReduce ▪ A web frontend with features such as spell check, page previews, a "safe search" to filter out explicit results, and a special search for the visually challenged, which enables the user to control the search entirely with spoken commands. ▪ Awarded the **'GOOGLE AWARD – BEST SEARCH ENGINE PROJECT'**. May 2012 **Android Controlled Car - http://bit.ly/androidCar** **Apr 2012 to May 2012** ▪ Built a car which can be controlled wirelessly using Bluetooth via an Android Phone. ▪ Has the following Features: Accelerometer control, Button control, Speed control, trace back and Obstacle detection using Proximity Sensor. **Multi-threaded Web Server** **Jan 2012 to Feb 2012** ▪ Implemented a full-fledged Web (HTTP) server that delivers static content and runs servlets. Currently serves 20000 requests with about 1000 concurrent requests. ▪ Implemented using Java. Worked on Eclipse IDE. **Photo Sharing Website – http://lifeuniverseandeverything.in/pennphoto** **Oct 2011 to Nov 2011** ▪ Includes facilities to message other users, add friends, form circles, share photos, search photos, post a topic, start threads and the ability to reply to threads. ▪ Implemented algorithms for searching, showing most relevant photos to users and recommending friends. Implemented using JQuery, PHP-MySQL and AJAX. **Customizable keyboardless keyboard** **Oct 2010 to May 2011** ▪ Developed a system which lets users to draw/print their own layouts and use them as keyboards. ▪ Awarded the **'TATA CONSULTANCY SERVICES - BEST STUDENT PROJECT AWARD'**. July 2011**. ▪ Awarded **'BEST STUDENT PROJECT POSTER AWARD'** awarded at the ACM International meet, Oct 2010. **GWAP (Games With A Purpose)** **May 2010 to Jul 2010** ▪ Created a game that would help improve the accuracy of SPHINX, a free and open source speech to text converter developed at the Carnegie Mellon University. Used Flash, PHP-MySQL.
ACTIVITIES/ LEADERSHIP	▪ Computer Science Department Representative for Anokha 2011, a national level tech fest. ▪ Class representative, Dec 2010 to May 2011