

Dinesh Majeti

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Educational Qualifications

Course	Institute	CGPA	Year
Ph.D. (Computer Science)	University of Houston, Texas.	3.8/4.00	2013-2018 (expected)
M.Tech. (Computer Science)	Sri Sathya Sai Institute of Higher Learning, India.	8.8/10.00	2011-2013
M.Sc. (Mathematics with specialization in Computer Science)	Sri Sathya Sai Institute of Higher Learning, India.	5.00/5.00	2009-2011
B.Sc. Honors (Mathematics)	Sri Sathya Sai University, India	4.97/5.00	2006-2009

Technical Skills

Programming Languages:	R, Java, C, C++, MySQL, MATLAB, Scala.
Mobile Programming:	Objective-C and Swift for iOS.
Web Programming:	PHP, JavaScript, D3.js, NVD3.js, SVG, HTML, CSS, Bootstrap, Angular.js, Node.js, Express.js.
Parallel Programming:	CUDA, MPI, OpenMP.
Platforms / Technologies / Tools:	Hadoop (Pydoop), Spark, ggplot2, RStudio, XCode, Eclipse, Gradle, SVN, Weka, IntelliJ, Git, VisualStudio, Scilab, PerfSuite, Valgrind, Unix Network Programming.

Research / Work Experience

- **Research Assistant, Computational Physiology Lab, University of Houston (August 2013 – August 2014, Jan 2018 - Current)**
 - Design and develop a scalable and bias-free web application, <http://www.scholarplot.com/>, to interface scientific careers.
 - Study the impact and significance of cross disciplinary collaboration in Genomics and Brain Science.
 - Detection and estimation of incline via Mobile application.
 - Design and develop [ScholarPlot](#), an iPhone application, using Objective-C, PHP and MySQL.
- **Teaching Assistant, Department of Computer Science, University of Houston, Texas, US (August 2014 – December 2017)**
 - Instructed and graded COSC 6397 Statistical Methods in Research Spring 2015, Spring 2016, Spring 2017
 - Instructor and grader for COSC 6355/4355 Ubiquitous Computing Fall 2014, Fall 2015, Fall 2016, Fall 2017
 - Teaching Assistant for IDNS 6391 Ethics in Science Fall 2016
 - Assessed and guided COSC 3380 Design of Databases Spring 2016
- **Software Engineer Intern, VoltDB, Bedford, Massachusetts (May 2017 – August 2017)**
 - Worked on adding support for multi-statement stored procedures and multiple-file batch processing for VoltDB.
- **Researcher, Crowdsourcing Project – Daemo (January 2016 – March 2017)**
 - A research project initiated by (Prof. Michael Bernstein) [Stanford HCI group](#) with collaboration of 500+ worldwide researchers.
 - This project is a complete design, implementation, launch, and evaluation of new crowdsourcing platform – [Daemo](#).
 - I was involved in evaluation, data analysis and paper writing.
- **Participant, Stanford Scholar (March 2016 – March 2017)**
 - An initiative by Stanford researchers to make research more accessible - <https://scholar.stanford.edu/#!/page/home>.
 - Helped in building of courses like Introduction to Algorithms.
- **Research Intern, Kellogg School of Management, Northwestern University, Evanston, Illinois (June 2015 - August 2015, June 2016 – August 2016)**
 - Develop an interface with university department level data to evaluate scientific departments as the unit of analysis. Also made improvements in the interface that make it more useful for evaluating individual scientists.
 - Convert statistical models into program features based on citation data; develop comparative analysis features for scholars.
- **M.Tech Dissertation, Sri Sathya Sai Institute of Higher Learning, India (June 2012 – March 2013)**
 - Statistical Approaches to Image Segmentation.
- **M.Sc Dissertation, Sri Sathya Sai Institute of Higher Learning, India (November 2010 – March 2011)**
 - A study of Random Walks and its application to Image Segmentation.

Awards/Achievements

- First Place in PhD Showcase at University of Houston in May 2015
- International Texas Public Education Grant Award, July 2014 and January 2015
- Justice P N Bhagwati Gold Medal for excellence in Master of Technology (Computer Science) in 2013
- Consistent Academic Excellence Award for 2 consecutive years in 2012 and 2013
- Qualified for Junior Research Fellowship in University Grants Commission NET, India, 2012
- Qualified in Graduate Aptitude Training Examination in Computer Science, India, 2011.

Other Projects

SHRPAS – Communication Module:	Worked with a team of undergraduate and graduate students to develop communication portion of SHRPAS's Professional Development Platform using Agile Methodology with TDD using AngularJS, Jade, CSS, Node.js, Express, MySQL and OpenTok API.
Weather App:	Pair project to develop a console application to obtain weather data for cities using TDD using JMock and JUnit in Java. The JSON data was obtained from Open Weather Map API .
Minesweeper Game:	Pair project to develop Minesweeper game with GUI (SwingBuilder) in Groovy using TDD.
Hadoop TF-IDF:	Compute the TF-IDF (Term Frequency and Inverse Document Frequency) using Pydoop and PySpark frameworks and determine synonyms for words by building a (word2vec) model.
Q Learning in PD World:	Use machine learning to find optimal paths to pick up and drop off items in a grid world.
Detection of incline by mobile app:	Detect and estimate the incline of the surface via a mobile application.
Records for Life:	A Bill and Melinda Gates Foundation project to develop an iOS application which parents could use to keep track of their children's vaccination records.
URL parser:	Pair project to find all the links starting from a URL recursively and in parallel using threads, software transactional memory (STM) and actors using Groovy Parallel Systems (GPars) framework.
Unix Programming:	Implemented a shell with basic functionalities for the Unix Environment in C.
Cool Compiler:	Implementation of lexical analyser and parser for 'COOL', an object oriented programming language.
Network Programming:	A command-line implementation of a simple HTTP server.
Coursera Stanford Online Courses:	Automata, Design and Analysis of Algorithms, Probabilistic Graphical Models, Front-End Web UI.
Mongo DB University Course:	Implementation of Mongo DB backend for a blog web application.
Code School Courses:	Real-time Web with Node.js, Building Blocks of Express.js, JavaScript, jQuery, SVG.

Publications

- ✓ [Stanford Crowdsourcing Research Collective]. Designing A Constitution for a Self-Governing Crowdsourcing Marketplace. Collective Intelligence Conference 2017, New York, USA, June, 2017.
- ✓ [Stanford Crowdsourcing Research Collective]. The Daemo Crowdsourcing Marketplace. CSCW: ACM Conference on Computer-Supported Cooperative Work and Social Computing, Portland, Oregon, USA, February, 2017.
- ✓ [Stanford Crowdsourcing Research Collective]. Crowd Guilds: Worker-led Reputation and Feedback on Crowdsourcing Platform. CSCW: ACM Conference on Computer-Supported Cooperative Work and Social Computing, Portland, Oregon, USA, February, 2017.
- ✓ [Stanford Crowdsourcing Research Collective]. Boomerang: Rebounding the Consequences of Reputation Feedback On Crowdsourcing Platforms. UIST: ACM Symposium on User Interface Software Technology, Tokyo, Japan, October, 2016.
- ✓ KA Kwon, **D. Majeti**, B. Uzzi, and I. Pavlidis. Scholar Plot: Visualizing Scientific Careers at a Glance. International Conference on Computational Social Science (IC²S²) 2016 Conference, Evanston, Illinois, USA, June, 2016.
- ✓ **D. Majeti**, S. Taamneh, M. Ugur, A. Khatri, and I. Pavlidis. Insights into Computer Science Academic Careers. Science of Team Science (SciTS) 2016 Conference, Phoenix, Arizona, USA, May, 2016.
- ✓ KA Kwon, **D. Majeti**, B. Uzzi, and I. Pavlidis. Scholar Plot: A Compact and Scalable Visualization Method for Academic Careers. Science of Team Science (SciTS) 2016 Conference, Phoenix, Arizona, USA, May, 2016.
- ✓ **D. Majeti**, KA Kwon, P. Tsiamyrtzis, I. Pavlidis. Dissecting Scholarly Patterns in Biology and Computer Science. Science of Team Science (SciTS) 2015 Conference, Bethesda, Maryland, USA, June 2015.
- ✓ I. Uyanik, A. Khatri, **D. Majeti**, M. Ugur, D. Shastri, I. Pavlidis. Using Accelerometer Data to Estimate Surface Incline and Its Walking App Potential. CHI'15 Extended Abstracts on Human Factors in Computing Systems, Seoul, South Korea, April 2015.
- ✓ **D. Majeti**, A. Prakash, S. Balasubramanian, PK Baruah. Parallel Cosegmentation via Submodular Optimization on Anisotropic Diffusion. IEEE International Conference on High Performance Computing (HIPC - 2012), Student Research Symposium, Pune, India, December 2012.

Extra-Curricular Activities

- **ACM SIGCHI:** Student Volunteer for CHI 2016 conference. Also, reviewer for [CHI LBW](#).
- **International Student and Scholar Services (ISSO):** Peer advisor for ISSO at the University of Houston for new international students in Spring 2016 and Spring 2017.
- **Research Mentor:** Mentor for 3 students in Summer 2016 for Undergraduate Research Experience Program at University of Houston. Also, Mentor for a team of 4 graduate students in Fall 2016 for their Masters [Capstone Project](#).
- **Sports & Cultural:** Actively participated and won in Table Tennis, Shuttle Badminton, Elocution, Orchestra and Dramatics.
- **Grama Seva:** Participated in [Grama Seva](#), the massive Sri Sathya Sai Village Service Program project to provide food and clothing to the needy in over 150 villages in Anantapur District of Andhra Pradesh, India, 2004-12.
- **Self-Reliance:** Member of Hostel Altar team, to organize various cultural programmes/festivals in hostel. Member of hostel kitchen with responsibility in maintaining accounts, bills and inventory management.