

Dinesh Majeti

Email: dmajeti@uh.edu

Phone: (+1) 832-769-6701

Educational Qualifications

Course	Institute	CGPA	Year
Ph.D. (Computer Science)	University of Houston, Texas.	3.75/4.00	2013-2017 (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

Work Experience

- **Teaching Assistant, Department of Computer Science, University of Houston, Texas, US (August 2014 – Current)**
 - Instructor and grader for COSC 6355/4355 Ubiquitous Computing Fall 2014, Fall 2015, Fall 2016
 - Course Builder for IDNS 6391 Ethics in Science Fall 2016
 - Instructed and graded COSC 6397 Statistical Methods in Research Spring 2015, Spring 2016
 - Assessed and guided COSC 3380 Design of Databases Spring 2016
- **Researcher, Crowdsourcing Project – Daemo (January 2016 – Current)**
 - A research project initiated by Prof. Michael Bernstein at [Stanford HCI group](#) with collaboration of 500+ world wide researchers.
 - This project is a complete design, implementation, launch, and evaluation of new crowdsourcing platform – [Daemo](#).
 - I am involved in evaluation, data analysis and paper writing.
- **Participant, Stanford Scholar (March 2016 – Current)**
 - An initiative by Stanford researchers to make research more accessible - <http://scholar.stanford.edu/index.html>.
 - Helped in building of courses like Introduction to Algorithms - <http://scholar.stanford.edu/courses.html>.
- **Research Intern, Kellogg School of Management, Northwestern University, Evanston, Illinois, US (June 2016 – August 2016)**
 - Populate [ScholarPlot](#)(SP) with university department level data that would permit users of SP to evaluate scientific departments as the unit of analysis, thereby expanding beyond individual researchers. Also made improvements in the interface that make it more useful for evaluating individual scientists and departments.
- **Research Intern, Kellogg School of Management, Northwestern University, Evanston, Illinois, US (June 2015 - August 2015)**
 - Program into the platform algorithms that convert statistical models into program features based on citation data; add comparative analysis features; and improve the back-end data intake features from Google Scholar.
- **Research Assistant, Computational Physiology Lab, University of Houston, (August 2013 – August 2014)**
 - Design and develop [ScholarPlot](#), an iPhone application called using Objective-C, PHP and MySQL.
 - Design and develop a web application, <http://www.scholarplot.com/>, to interface scientific careers.
 - Detection and estimation of incline via Mobile application.
 - Evaluation of Academic Performance of Scientists.
- **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.

Technical Skills

Programming Languages:	C, C++, Java, Working knowledge of Scala, Groovy, Ruby, Erlang, Clojure, Haskell.
Mobile Programming:	Objective-C and Swift for iOS.
Web Programming:	PHP, JavaScript, Express, Node.js, HTML, CSS, Bootstrap, Angular.js, Express.js.
Parallel Programming:	CUDA, MPI, OpenMP.
Platforms/Technologies:	Unix Programming, Unix Network Programming, Multithreaded Programming, Web programming using C# and ASP.NET, Open source Web Technologies like Joomla.
Databases:	MySQL, Oracle 10g, DB2, MongoDB.
Tools:	R, XCode, Eclipse, MATLAB, RStudio, Gradle, SVN, Weka, IntelliJ, PerfSuite, Git, Valgrind, VisualStudio, Scilab, LaTeX.

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.

Publications

- ✓ [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.

Other Academic 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.
URL parser:	Pair project to compute the number of links starting from a URL recursively in Groovy. This program was parallelized 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.
ASP.NET and C#:	A group project for the design and development of an Online Publication System.
Cool Compiler:	Implementation of lexical analyser and parser for an object oriented programming language called 'COOL'.
Network Programming:	A command-line implementation of a simple HTTP server.
Minix Operating System:	Implementation of a memory management scheme and a system call in Minix.
Coursera Stanford Online Courses:	Automata, Design and Analysis of Algorithms Part 1, Probabilistic Graphical Models.
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

Extra Curricular Activities

- **ACM SIGCHI:** Student Volunteer for CHI 2016 conference. Also, reviewer for [CHI LBW](#).
- **Research Mentor:** Mentor for 3 students in Summer 2016 for Undergraduate Research Experience Program at University of Houston. 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.

Technical Presentations

- Presented a paper and poster at The Science of Team Science Conference, SciTS 2016, Phoenix, AZ, USA, May 2016.
- Presented a poster at The Science of Team Science Conference, SciTS 2015, Bethesda, MD, USA, June 2015.
- Presented a poster at CHI EA '15 Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems in Seoul, South Korea, April 2015.
- Presented a paper at the IEEE International Conference on High Performance Computing, Student Research Symposium, Pune, India, December 2012.

Languages

- English, Telugu