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# ASHISH V SHENOY

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## EDUCATION

<b>University of Wisconsin-Madison</b>	<b>Madison, WI</b>	<b>Fall 2015 – Spring 2017</b>
<ul style="list-style-type: none"><li>M.S. in Computer Science, May 2017*, GPA: 3.84/4.0</li><li>Courses: <b>Machine Learning, Data Science, Computer Vision, Big Data Systems, Pattern Recognition, Deep Neural Networks, Data Visualization</b></li></ul>		
<b>R. V. College of Engineering</b>	<b>Bangalore, India</b>	<b>Fall 2009 – Spring 2013</b>
<ul style="list-style-type: none"><li>B.E. (Computer Science), May 2013, GPA: 9.45/10.0, GRE: 336, Branch Topper</li></ul>		

## EXPERIENCE

<b>Software Development Intern</b>	<b>Amazon Web Services, Seattle</b>	<b>May 2016 – Aug 2016</b>
<ul style="list-style-type: none"><li>Built an internal build tool to automate deploy and backup of Apex components in Salesforce platform for the AWS Partner Systems Team.</li></ul>		
<b>Software Development Engineer</b>	<b>NetApp, Bangalore</b>	<b>Aug 2013 – Jul 2015</b>
<ul style="list-style-type: none"><li>As a full-stack developer, designed and developed features for OnCommand Performance Manager and System Manager.</li><li>Worked primarily with <b>Java, Spring, AngularJS and MySQL</b>.</li><li>Received "Spot Award" and "Rising Star" award for bringing down the backlog of customer found defects from 30 to 0 during ramp up in 2014.</li><li>Built an Android prototype called "NetApp SMART" to automate storage provisioning workflows.</li></ul>		
<b>Software Development Intern</b>	<b>NetApp, Bangalore</b>	<b>Jan 2013 – Jul 2013</b>
<ul style="list-style-type: none"><li>Designed and developed a test automation web tool for the FAS Systems Group (FSG). Cut down test script execution time by order of hours.</li><li>The tool was primarily built using <b>PHP, Perl, HTML, JavaScript and MYSQL</b>.</li></ul>		

## RESEARCH EXPERIENCE

<b>Research Assistant</b>	<b>University of Wisconsin-Madison</b>	<b>Aug 2015 – May 2016</b>
<ul style="list-style-type: none"><li>Worked with <b>Prof. Barton Miller</b> on <b>Project SWAMP</b>, a web app that provides a lab of static analysis tools to test security and quality of code.</li><li>Optimized and re-designed result parsing module, improving its efficiency by over 70% for all tools. Link: <a href="http://mir-swamp.org/-tools/public">mir-swamp.org/-tools/public</a></li></ul>		
<b>Research Assistant</b>	<b>University of Wisconsin-Madison</b>	<b>Aug 2016 - Present</b>
<ul style="list-style-type: none"><li>Working with <b>Prof. Nicole Werner</b> on HelpCare Connect, a web and mobile app to help informal caregivers dealing with Alzheimer's Disease patients. The app uses Machine Learning to recommend strategies and get personalized techniques to employ for certain behaviors.</li></ul>		
<b>Research Assistant</b>	<b>Indian Institute of Science, Bangalore</b>	<b>Jun 2012 – Aug 2012</b>
<ul style="list-style-type: none"><li>Worked with <b>Prof. A.G. Ramakrishnan</b> in designing an evaluation tool and an android app for Optical Character Recognition Engines and Text-To-Speech Engines for Kannada and Tamil. Leveraged NLP techniques such as sentence boundary detection and tokenization.</li></ul>		

## SELECT PROJECTS

- Semantic Vertical Search Engine** (May 2013): Final year project during undergrad. This project involved building a Focused Crawler, Text Classifier, Indexer and Page Ranking algorithm. Managed to have a functioning vertical search engine for the university. Technologies used: **Python, PHP, JavaScript, MySQL, jQuery, Beautiful Soup, HTML**.
- MATRIX - (Matching, Analysis, Text Retrieval and Information Extraction)** (Nov 2015): Performed information extraction and entity matching on data sets from Yelp and Zomato. Applied learning methods such as Randomized Forest and Naïve Bayes for matching two same restaurants in both these websites. Obtained a 97.44% Precision and Recall on unseen data. Link: <http://pages.cs.wisc.edu/~ashenoy/CS784/>
- Machine Learning Projects** (Sep-Dec 2015): Designed a system to predict the outcome of a cricket match by learning feature sets from statistics in CricInfo.com. Implemented Iterative Dichotomizer-3 tree, Single-layer neural network and Tree Augmented Naïve Bayes algorithm for predicting diabetes, heart disease, tic-tac-toe moves and RADAR signals.
- Automated View Morphing** (Apr 2016): This was a major project in Computer Vision course. Attempted to improve the state of the art in view morphing process to produce realistic image transformations. Optimized the corresponding point selection of given input images without having any prior information about the 3D structure of the object in the image using SIFT. Link: <http://pages.cs.wisc.edu/~ashenoy/CS766/>
- PageRanking, Structured Streaming and Twitter Stream processing using Spark and Apache Storm** (Oct 2016): Developed a PageRanking application using Scala on Spark on a Hadoop cluster. Experimented with custom partitioning of the RDDs, persistence and executor threads. Also, wrote a simple Scala streaming twitter application that emits stats based on the timestamps of the tweets.
- Neural Machine Translation for Indian Languages (Hindi-English)** (Apr 2017): Using Recurrent Neural Networks (RNN) with LSTM trained a deep neural network to learn Hindi to English translations and vice versa. Optimized the learning pipeline to train to a perplexity < 4 with a training set as low as 10000 parallel sentences.

## LANGUAGES AND TECHNOLOGIES

- Java, Python, Scala, PHP, Perl, C++, C#, Apex, MySQL, SQLite, neo4j, JavaScript, AngularJS, node.js, jQuery, Spring, HTML, CSS
- Android, Windows Phone, Matlab, MapReduce, Tez, Apache Spark, Apache Hive, Salesforce Apex

## NOTABLE MENTION

- Winner at HackIllinois (Urbana-Champaign, 2016)
- Best Social Entrepreneurship Award at Transcend Madison (Madison, 2017)
- Finalist in HFES Mobile Health Applications for Consumer Design Competition (New Orleans, 2017)
- Winner of Microsoft Hackathon (Bangalore, 2012)
- Winner of VMWare CloudFoundry Hackathon (Bangalore, 2012)
- President of the Indian Graduate Student Association, UW-Madison (2016-2017)

<https://github.com/ashishvshenoy>

<https://www.linkedin.com/in/ashishvshenoy>