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OBJECTIVE	Seeking a full time position as a Software Development Engineer.
INTERESTS	Database Systems, Distributed Systems, Applied Machine Learning, Enterprise Web Application Development.
EDUCATION	<p>University of Wisconsin, Madison <i>Master of Science in Computer Sciences</i> Sep 2012 - May 2014(expected) CGPA: 4.0/4.0</p> <p>College of Engineering Guindy (CEG), Chennai, India <i>Bachelor of Engineering in Computer Science and Engineering</i> Aug 2006 - May 2010 CGPA: 9.37/10</p>
RESEARCH EXPERIENCE	<p>Department of Computer Sciences, University of Wisconsin, Madison <i>Graduate Research Assistant (with Prof. Jignesh Patel)</i> Sep 2013 - Present Working in the <i>Microsoft Jim Gray Systems Lab</i> on a research problem to scale data analytics, done using R, to datasets larger than main memory.</p> <p><i>Graduate Research Assistant (with Prof. Christopher Re)</i> Dec 2013 - May 2013 Worked on introducing OpenBUGS support for Elementary, a storage manager for scalable Statistical Inference and Learning. A pre-alpha Open Source release was done along with Elementary 0.3.</p>
PROFESSIONAL EXPERIENCE	<p>Amazon.com HQ, Seattle, USA <i>Software Development Engineer Intern</i> Jun 2013 - Aug 2013 Worked in Amazon RDS (Relational Database Service), an AWS (Amazon Web Services) offering, implementing a new feature to enable customers to verify their cloud database snapshots against corruption. Also, specced out the different corruption behavior in MySQL by modifying the InnoDB data files (*.ibd files) based on the InnoDB file layout.</p> <p>Department of Information Technology (DoIT), Madison, USA <i>Graduate Project Assistant</i> Sep 2012 - Dec 2013 Taught 3 classes - Javascript-1, Javascript-2 and JQuery for Mobile Developers - as part of the Student Technical Training program in DoIT.</p> <p>ThoughtWorks India Pvt Ltd, Bangalore, India <i>Application Developer / Consultant</i> Jun 2010 - Jul 2012</p> <ol style="list-style-type: none">1. Worked on building the website and web services for TheTrainline (and 20 other associated portals). C#, ASP .NET, ASP .NET MVC, Biztalk and IIS were used for the server side. Oracle and SQLServer were the databases. JQuery and Javascript were used for the client side. Primarily worked on the server side in Object Oriented Design and Service Oriented Architecture.2. Built an Android OCR application - Kannada4Android - that transliterates from Kannada (a South Indian language) to English. OpenCV for Android was used for preprocessing images and Kohonen Neural Networks was used for training and recognition. Presented the idea in Mobile Camp, an unconference held in IIM Bangalore for which a newspaper article was published in the Bangalore Mirror.
GRADUATE PROJECTS	<p>Buffer Pool Aware Query Optimization - Replicated the experiments in this paper with PostgreSQL. Our experimental results complied with those from the paper for selection queries but not for join queries. We examined the plausible reasons for this behavior of join queries.</p> <p>Table Extraction Using Conditional Random Fields - Built a table extraction system from PDF files using Conditional Random Fields (CRF). Compared the performance of CRF with Support Vector Machines and Logistic Regression.</p>

Part-of-speech tagging - Implemented Hidden Markov Models (HMM) - Expectation Maximization (EM) and Gibbs Sampling - for part-of-speech tagging. Compared their performance on two data sets - Bible vocabulary and Orwell's 1984.

UNDERGRADUATE
PROJECTS

Enhanced Multimedia Services for Heterogeneous Wireless Networks - Implemented a cross layered approach for the optimal delivery of multimedia services for mobile hosts having frequent hand-offs for my final year project - 2010.

GUI based monitoring of Network Health Status - Implemented a tool for monitoring the health of the nodes in the network to ease the job of the Network Administrator as a summer project in IIT Madras - 2009.

Campus Traffic Monitor (CTM) - Developed a system aimed at monitoring the movement of vehicles in CEG by the use of cameras for IBM's The Great Mind Challenge - 2007.

SOFTWARE
SKILLS

Languages : C++, Java, Python, C#
Databases : PostgreSQL, MySQL, Oracle
Web Development : ASP .NET, ASP .NET MVC 1.0, IIS, Tomcat, HTML, Javascript, JQuery, CSS
Other Tools : Apache Hadoop, Apache Nutch, Open CV for Android
Operating Systems : Windows, Linux, Android
Software Development Methodology : Agile (Test Driven Development and Pair Programming)

GRADUATE
COURSES

CS739 - Distributed Systems, **CS838** - Advanced Computer Security, **CS764** - Advanced Database Technologies, **CS769** - Advanced Natural Language Processing, **CS784** - Data Models and Languages, **CS760** - Machine Learning.

HONORS AND
AWARDS

Rated **Outstanding** (among Outstanding, V Good, Good and Should Improve) for both the fiscal years at ThoughtWorks.
Secured **First Class with Distinction** in Bachelor's degree and was consistently in the top 5 among 160 students.
Secured **First Place** in the Projects category in Kurukshetra 2008, a techno-management fest of CEG for the CTM project.
Awarded **Prof.K.S. Hegde Endowment Award** for being the best student **National Service Scheme (NSS)** volunteer for 2007-2008.
Shortlisted **among the top 20 teams** in National Level in IBM's The Great Mind Challenge - 2007, India.
Secured **State 3rd and District 1st** in the class XII Higher Secondary board examinations scoring 98.67% (among 5.76L students).
Secured **State 9th** in the state entrance examinations (among 1.52L students) and was honored by the then **Education Minister** of the state.
Awarded **Raj Mudhalvan Award** for being the district topper and was honored by the then **Governor** of the state.
Participated in the Facebook Hackathon held in the University of Wisconsin - Madison. Also won many programming and debugging contests during my undergraduation.

LEADERSHIP
ROLES

Was Actively involved in recruiting in Thoughtworks and was instrumental in organising a visit to the **Angel's Orphanage** where we spent a day with the children.
Was the **Sponsors team-Core** of Abacus 2010, an International level technical festival of the Computer Science department of CEG.
Conducted an event named **Network Warriors** in Kurukshetra 2010. The event was targeted at testing the Networking skills of the participants.
Held the treasurer's office for NSS Unit IV during my third year in college and served actively as a volunteer for all the 4 years. Some activities we did in NSS were Tree Planting, Narrow casting, dental camp, eye camp, anti-tobacco campaign, drive-safe campaign and visiting orphanages.

EXTRA AND
CO-CURRICULAR
ACTIVITIES

Learnt to play Mridangam, a percussion instrument for 5 years.
Like to play badminton and real time strategy computer games.