

Pratik R. Joshi

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Education

- **Masters of Science in Computer Science** August 2013 - May 2015
University of Southern California (USC), Los Angeles, CA GPA: 3.6
Coursework: Analysis of Algorithms, Web Technologies, Software Engineering, Artificial Intelligence, Database Systems, Information Retrieval and Web Search Engines
- **Bachelor of Engineering in Computer Engineering** August 2009 - May 2013
Thakur College of Engineering and Technology (TCET), University of Mumbai, India GPA: 3.5
Coursework: Computer Networks, Computer Organization Architecture, Operating Systems, Data Structures, Compilers

Technical Skills

Languages: Java, C, Objective-C, HTML, CSS, JavaScript, XML, DOM, PHP, JSP, Servlets, Ajax, jQuery, SQL, Android SDK

Servers: Apache Tomcat, WAMP Databases: Oracle 12c, MySQL 5.0, SQLite3

Operating Systems: Windows, Linux Tools: GitHub, XCode 5.1, Eclipse IDE, Dreamweaver, Apache Tika, Lucene, Solr

Research Publication

- Published Technical Paper titled 'GP-GPU Accelerated Supercomputing' in International Journal of Scientific and Engineering Research (IJSER) in Nov '12 Edition, 3rd Volume. URL- <http://goo.gl/IOoD6E>

Out of Interest Projects

iPhone App for USC-Housing Deals [Objective-C, XCode 5.1, iOS 7, Facebook Graph API, Google Maps and Places API, Git/Github] Summer 2014

- Developed an iPhone to extract subleasing/housing posts from Facebook pages of USC
 - Rendered a map with location of apartment mentioned in post with additional location information about nearby amenities like ATMs, grocery stores and restaurants
 - Used Facebook Graph API to extract feeds, Google Maps and Places API to render locations
 - User would log in, give requested permissions to app and would get back list of posts related to housing.
- Github URL - <https://github.com/PratikRJoshi/HousingApp> Demo - <https://www.youtube.com/watch?v=UIJ25xvLw2I>

Academic Projects

Yahoo Weather App [HTML, CSS, Javascript, PHP, Servlets, JSON, Amazon EC2, AJAX, Facebook API, Yahoo's YUI Datatable, Yahoo's Weather API, OAuth and Eclipse IDE] Fall 2013

- Developed Web application that queries and scrapes Yahoo Weather service to display current weather and weather forecasts for upcoming 5 days which user had option to post on Facebook Wall.
- Developed an Android app too, thus providing 2 different interfaces as per specifications with backend code common to both since it passed result as JSON object.

Neural Network for image detection [Java] Spring 2014

- Designed a neural network for detecting images given in 28X28 pixel grid.
- Trained and tested with 2 sets of 30,000 sample images and achieved 91% prediction accuracy.

Logic and Satisfiability Problem [Java] Spring 2014

- Implemented modified PL Resolution, an NP-complete algorithm, in Java to determine feasibility of seating arrangement for given number of friend/enemy guests on given number of tables.
- Input was number of tables and guests. The clauses were generated in FOL and resolved to give feasibility output.

Storage and Retrieval in Spatial Database [Oracle 12c, Java, SQL] Spring 2014

- Developed a spatial database which consisted of USC campus stored as set of polygons to keep track of various objects like fire hydrants, buildings on fire and those not on fire in Oracle spatial database.
- Fired queries on spatial database to retrieve list of spatial objects near other desired objects.