**NARASIMMAN SAIRAM**

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**EDUCATION**

**Master of Science, Computer Science**  *May 2016 (Expected)*

**New York University, Courant Institute of Mathematical Sciences, New York** *GPA: 3.5/4.0*

*Relevant Coursework:* Distributed Systems, Artificial Intelligence, Natural language Processing, Real-time and Big Data Analytics, Web Search Engines, Production Quality Software, Fundamental Algorithms and Operating Systems.

**Bachelor of Technology, Information Technology** *May 2010*

**Madras Institute of Technology, Anna University, Chennai** *GPA: 8.2/10*

**PROFESSIONAL EXPERIENCE**

**Software Development Engineer, Pegasystems Inc.** *March 2013 – Dec 2014*

***UI Technologies:* Java | HTML5 | CSS | JavaScript | Handlebar JS | JQuery | RWD | REST Web Services | Scrum**

* Designed and implemented web application that supports the architecture in offline mode.
* Developed Responsive Web Applications for Android Mobile and Tablets working with globally distributed teams.

**Software Developer, United Online Inc.**  *July 2010 – Feb 2013*

***Application Technologies:* Java | Struts | MySQL | Hibernate | JSP | JavaScript | JUnit | Agile Development | Linux**

* Developed Java based components for e-commerce ad-server and mass mailer that sends out deals to 9M members.
* Built and maintained test-staging servers and weekly production releases.
* Revamped Mypoints.com website as a member of the web development team in San Francisco.
* Improved user experience by redesigning UI, porting to latest technologies and adding social media Integrations.

**ACADEMIC PROJECTS**

**Distributed Systems - Key Value Service**  *Fall 2015*

***Concepts and Technologies:* RPC | PAXOS | Linearizability | Consistency Models | Distributed Transactions | GO**

* Implemented a sequentially consistent, high performance distributed system tolerating crashes, disk failures and network partitioning; built architecture patterned on systems like BigTable and Spanner.

**Big Data - Exploratory Correlation Analysis on NYC Public data**  *Fall 2015*

***Big Data Technologies:* Java | Hadoop | MapReduce | Python | Apache Hive | Spark**

* Performed data pre-processing and grouping with zip codes of a ~30GB sized dataset using Big Data technologies.
* Calculated moving averages and found exploratory correlation between NYC taxi ridership and public events

**Mobile and Web Application – Smart Date** *Spring 2016*

***UI Technologies:* MongoDB | Python | JQuery mobile | ReactJS | PhoneGap | Yelp and Uber API**

* Pick a location radius and price range and go on an adventure based on intelligent scheduling of user needs.

**Natural Language Processing – Natural language to SQL Queries** *Spring 2016*

***Natural Language Toolkits:* NLTK | Python**

* Parse natural language sentences to SQL queries and respond with meaningful data from the database.

**Information Retrieval System – SmartOverflow**  *Spring 2016*

***IR Technologies:*** **Java | Apache Lucene | Crawling and Ranking**

* A question answering system that responds with the best solution for any coding queries.

**RESEARCH AND ACADEMIC WORK EXPERIENCE**

* **Graduate Research Assistant** in a team of 20 researchers on a global Urban Expansion program sponsored by United Nations; computerized multi-lingual surveys, built website, maintained entire stack of the application.
* **Teaching Assistant** (Tutor and Grader) for Web Development and Programming and Discrete Mathematics at NYU.
* Published a research paper ‘*A Cryptographic approach to defend against IP spoofing’* at Springer Library in 2010.