NARASIMMAN SAIRAM

narasimman.sairam@nyu.edu https://github.com/Narasimman
646-457-5554 http://www.linkedin.com/in/narasimmansairam

EDUCATION

Master of Science, Computer Science *Dec 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.