NARASIMMAN SAIRAM

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EDUCATION

Master of Science, Computer Science
May 2016

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

ACADEMIC PROJECTS

Distributed Key Value Service
Fall 2015

RPC | PAXOS | Linearizability | Consistency Models | Distributed Transactions | GO

- Implemented a sequentially consistent, high performance distributed system. The system tolerates crashes, disk failures and network partitioning. The architecture is patterned on systems like BigTable and Spanner.

Exploratory Correlation Analysis on NYC Public data
Fall 2015

Hadoop | MapReduce | Python | Apache Hive | Spark

- Performed data pre-processing, grouping with zip codes, calculated moving averages to find exploratory correlation between NYC taxi ridership and public events dataset of size ~30GB using Big Data technologies.

PROFESSIONAL EXPERIENCE (4 YEARS AND 6 MONTHS)

Student Research Assistant, NYU Stern Urbanization project
May 2015 - Present

Web Development | I18N | CodeIgniter MVC framework (PHP)

- As a Technology Developer in the team of 20 researchers on a global Urban Expansion research program sponsored by UNITED NATIONS, I work on computerizing multi-lingual surveys conducted at 200 cities and build websites.
- Responsible for maintaining the entire stack of the application and developing features like Internationalization (I18N), Localization and customizing CodeIgniter framework.

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

Java | HTML5 | CSS | JavaScript | Handlebar JS | JQuery | RWD | REST Web Services | Scrum

- Designed and implemented a new web application that supports PRPC application architecture and infrastructure in offline mode using Local Storage and Application Cache.
- Developed Responsive Web Applications for Android Mobile and Tablets working with globally distributed teams.

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

Java | Struts | MySQL | Hibernate | JSP | JavaScript | JUnit Testing | Agile Development | Linux

- Developed Java based components for e-commerce ad-server and mass mailer that manages ads and sends out deals to the daily members of ~9M. Mentored the development team.
- Member of the web development team in San Francisco revamping Mypoints.com website (9M daily visitors) to improve user experience by redesigning UI, porting to latest technologies and adding social media Integrations.
- Responsible for building and maintaining test-staging servers and weekly production releases.

ADDITIONAL DETAILS

- Tutor and Grader (Teaching Assistant) for several courses like Web Development and Programming for undergraduates and Discrete Mathematics for Graduates at NYU.
- Published a research paper titled ***A Cryptographic approach to defend against IP spoofing*** at Springer Library.