

# NARASIMMAN SAIRAM

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## EDUCATION

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### Master of Science in Computer Science

Expected January 2017

**Courant Institute of Mathematical Sciences, New York University, New York**

GPA: 3.75/4.0

*Relevant Coursework:* Distributed Systems, Artificial Intelligence, Real-time and Big Data Analytics, Programming Languages, Production Quality Software, Fundamental Algorithms, Operating Systems, Financial Computing.

### Bachelor of Technology in Information Technology

May 2010

**Madras Institute of Technology, Anna University, Chennai, India**

CGPA: 8.2/10

## PROFESSIONAL EXPERIENCE (4 YEARS AND 6 MONTHS)

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### Student Research Assistant

May 2015 - Present

NYU Stern Urbanization project (Sponsored by UNITED NATIONS) - New York University

**PHP | Web development | AJAX | CodeIgniter framework |**

- As the only Technology Developer in the team working on a global program of research conducted at 200 cities, preparing for *HABITAT III – the United Nations conference*, I'm building surveys and websites in ten global languages.

### Software Development Engineer

Mar 2013 – Dec 2014

Pegasystems Inc., Bangalore, India

**Java | JavaScript | HTML | CSS | Handlebar JS | JQuery | REST web services | Agile Development | Scrum |**

- As a member of UI Engineering team at Pega, we designed and implemented a new web application that supports PRPC application architecture and infrastructure in offline mode using latest UI technologies.
- Developed Pega Applications for iPhone, iPad and Android Mobile and Tablets working across time zones with distributed teams in Cambridge, US and Krakow, Poland.

### Software Development Engineer

July 2010 – Feb 2013

United Online Software Development (India) Pvt. Ltd., Hyderabad, India

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

- As a primary developer of Mypoints.com, I developed Java based components for e-commerce ad server and mass mailer that manages ads and sends out deals to the members.
- Member of the core web development team revamping Mypoints.com website to improve user experience by redesigning user interfaces and adding social sharing APIs.

## PROJECTS

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- Published a research paper titled 'A Cryptographic approach to defend against IP Spoofing' in the prestigious SPRINGER international Proceedings. (MIT, Anna University)
- Implementing a high performance fault tolerant distributed system that provides a key/value service using a form of primary/backup replication with PAXOS and Sharded storage techniques in GO Programming language(Fall 2015)
- Working on Big Data analytics project 'Most happening place in a city' using Hadoop, Apache Hive and Spark, where the system learns from the previous year's data of size (more than 50GB) and performs predictions (Fall 2015)
- Implemented components of OS in C++ as part of coursework using Discrete Event simulation model (Spring 2015)
- Versioning of static content for MyPoints.com website that improved the page load time by 40% (Mypoints.com)

## ADDITIONAL DETAILS

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- Tutor and Grader (Teaching Assistantship) for several courses like Web development and Programming for undergraduates and Graduate Discrete Mathematics at NYU.