

# Nitin Jamadagni

## Curriculum vitae

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### EDUCATION

2012 – 2016 **Information Technology**  
BACHELORS DEGREE  
NITK Surathkal, India

2016 – 2018 **Computer Science**  
MASTER'S DEGREE  
USC, Los Angeles, CA

### WORK EXPERIENCE

CURRENT

Integrated Media Systems Lab, USC

#### *Student Researcher and Systems Administrator*

I am working on 1) An end-to-end Internet of Things Stack for Sensor Data Management and Analytics 2) A Geo-coded Health Care Infrastructure 3) A geo-Spatial recommendation system on top of Oracle PGX and R.

I also handle the Dev/Ops and Systems Administration for the Lab.

MAY – DEC 2015, MAY – JULY 2016

Supercomputer Education and Research Center, IISc, Bangalore

#### *Systems Research Assistant*

Mentors : Prof. Yogesh Simmhan

There is pressing need to represent data as graphs, more so as temporal graphs with changing structures and schema. Currently this has been realized in the form of (GoFFish). My Work was on extending GoFFish from a batch analytic framework to interactive querying, and is realized as a graph query engine (GoDB).

SUMMER 2014

RBCCPS, IISc, Bangalore

#### *Internet of Things Stack Developer*

Mentors : Prof. Yogesh Simmhan and Dr. Prasant Misra

We developed a generic stack for an Internet of Things Application. I worked on the development of a distributed architecture for handling sensor data. I built a Complex Event Processing engine for resource constraint devices that synchronizes with the cloud. (CEPLite).

### SKILLS

LANGUAGES Java, C++, Python, Oracle SQL, R

SOFTWARES MongoDB, Graph Databases, Indexing technologies, Apache Spark, Hadoop, Oracle PGX etc.

### RELEVANT PROJECTS

- 2016 **Geo-Spatial Recommendation System**  
Working on a recommendation System integrating Social graphs and Geo-location based data. The system is modelled over Oracle PGX graph database and Oracle R Enterprise.
- 2014 **Application Recommendation System(Pentagram-RS)**  
A personalized recommendation engine based on Graph Databases
- 2014 **NoSQL database(NoPandaDB)**  
Designed and implemented a document storage oriented NoSQL database for the mobile and resource constrained platforms
- 2016 **Performance prediction of real-world web services**  
Collaborative quality-of-service (GoS) prediction approach for web services by taking into account the past web service usage experiences of service users.
- 2016 **Markov Regime Switching GARCH**  
Wrote a package in R implementing the Markov Regime switching model for volatile time series data-sets.

### RECENT PUBLICATIONS

- 2016 **GoDB: From Batch Processing to Distributed Querying over Property Graphs**  
Nitin Jamadagni, Yogesh Simmhan.  
**CCGRID-2016**, 16-19 May 2016 at Cartagena, Colombia.
- 2014 **Event Processing across Edge and the Cloud for Internet of Things Applications**  
Nithyashri Govindarajan, Yogesh Simmhan, Nitin Jamadagni and Prasant Misra. 20th International Conference on Management of Data (COMAD), 17 to 19 Dec 2014 at Hyderabad, India.