

Nitin Jamadagni

Curriculum vitae

📍 340 1/2 W 33rd Street, LA, CA 90007
☎ +1 (213) 421 7320
✉ nitin.jamadagni@gmail.com
🌐 <https://github.com/NitinJamadagni>

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) .

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

Mentors : Dr. Ugur Demiryurek

I am working on 1) A Context aware Socio-Spatial recommendation system 2) An end-to-end Internet of Things Stack for Sensor Data Management and Analytics 3) GeoHashing and efficient GeoQueries on NoSQL systems

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

SUMMER 2017

Visa Inc. , Highlands Ranch, CO

Software Engineering Intern

I worked on 1) Built a CICD pipeline for software delivery at the organization. 2) Porting financial software from legacy systems onto the modern infrastructure built on Hadoop.

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).

SKILLS

LANGUAGES Java, C++, Python, Oracle SQL, R, C# , Javascript, Groovy

TECHNOLOGIES MongoDB, Cassandra, Graph Databases, Indexing technologies, Apache Spark, Hadoop, Oracle PGX etc. , Jenkins , Unix/Powershell Scripting

RECENT PROJECTS

2017 **Next Generation Complex Event Processing Engines for IoT and CPS Systems**

An in-memory solution for a CEP engine for a distributed environment with support for dynamic scaling

2017 **Privacy Violations on Distributed Databases**

Techniques for violation of user data privacy on top of deployed Distributed Data Stores

2016 **Context Aware Socio-Spatial Recommendation System**

2015 **GoDB - Distributed Temporal Graph(GoDB)**

2014 **Application Recommendation System(Pentagram-RS)**

2014 **NoSQL database(NoPandaDB)**

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.