

CONTACT INFORMATION	210 Calderon Ave, Mountain View, CA j.prasanth.j@gmail.com +1-937-232-1488	http://www.linkedin.com/in/prasanthj https://github.com/prasanthj
INTERESTS	Large-scale distributed systems, big data interactive analytics	
EDUCATION	The Ohio State University, Columbus, USA 2011 - 2013 MS in Computer Science and Engineering <ul style="list-style-type: none">▪ Graduate Teaching Assistant – Advanced Databases and Data Structures using Java▪ Graduate Research Assistant - Database Research Group▪ Graduate Assistant – Advanced Computing Center for Arts and Design▪ Specialization – Distributed Systems and Large Scale Data Analytics BITS-Pilani, India 2004 - 2008 BE (Honors) in Computer Science with cumulative GPA of 7.59 on a scale of 10.0	
EXPERIENCE	Hortonworks Inc. Member of Technical Staff – Apache Hive Present <ul style="list-style-type: none">▪ Working in Hive team on Optimized Row Columnar (ORC) file format and hive performance improvements. Hortonworks Inc. Software Engineer Intern 3 months <ul style="list-style-type: none">▪ Worked with Hive team on improving the performance and compression of ORC file format. Google Summer of Code - 2012 Student Developer 3 months CUBE OPERATION IN APACHE PIG May – Aug 2012 <ul style="list-style-type: none">▪ Implemented CUBE and ROLLUP operators in Apache Pig to support large-scale data analysis using OLAP cubes.▪ Implemented MR-Cube algorithm for distributed cubing on holistic measures. Samsung Electronics, India Senior Software Engineer 3 yrs 1 month NETWORK PERSONAL VIDEO RECORDER Dec 2010 – Aug 2011 <ul style="list-style-type: none">▪ Implemented XQuery query generation engine with support for string and expression based searches using FLWOR clauses.▪ Implemented event notification and subscription services for scheduled recording and content directory services in DLNA stack. 3D GAME PLATFORM Jul – Nov 2010 <ul style="list-style-type: none">▪ Implemented an optimized native rendering interface using SDL.▪ Developed Lua-SDL abstraction layer using SWIG to expose SDL APIs to Lua. EBOOK FRAMEWORK Jan – Jun 2010 <ul style="list-style-type: none">▪ Implemented color mapping module that converts RGB color values received from the application to 4bpp grayscale format.▪ Developed file browser and file synchronization application using wxWidgets. RICH USER INTERFACE WIDGET FRAMEWORK Jul – Dec 2009 <ul style="list-style-type: none">▪ Developed Mind Map application for DTV using Lua-SDL.▪ Improved the runtime performance of Lua script on ARM (~40% improvement for Lua SciMark benchmark) using LLVM-Lua. INTERACTIVE WEB ENGINE Aug 2008 – Jun 2009 <ul style="list-style-type: none">▪ Developed scriptable plug-in using Netscape Plug-in Application Program Interface for handling PDF files inside webkit based browser.	

SAP Labs, India | Intern | 6 months

LEAN DEVELOPMENT ENVIRONMENT | Jan – Jun 2008

- Developed commercial quality plug-in in SAP Net Weaver IDE for managing the life cycle of Jetty. It reduced the turnaround time for application development by more than 50% as it eliminated most of the time spent on non-core activities like build and deployment.

COURSE PROJECTS

The Ohio State University, Columbus, USA

INTERACTIVE ANALYSIS OF ONLINE AGGREGATION QUERIES | Apr – May 2012

Course: *Intermediate Studies in Data Interaction*

- Implemented an application for online interactive analysis of aggregate queries using Apache Pig and in-memory SQLite database.
- Implemented data distribution and OLAP cube lattice visualization using d3.js.

MAP-SIDE FRAGMENT REPLICATED HASH JOIN IN YSMART | Jan – Mar 2012

Course: *Intermediate Studies in Large Scale Distributed Systems for Big Data Analysis*

- Implemented map-side fragment replicated hash join in YSmart (a correlation aware SQL-to-MapReduce translator) using distributed cache in Hadoop with support for full outer and left outer joins.

COURSE MANAGEMENT SYSTEM | Sep – Dec 2011

Course: *Web Services based Distributed Systems Projects*

- Developed course enrolment module that enabled users to make payments using PayPal checkout.

BITS-Pilani, India

AUTOMATIC LICENSE PLATE RECOGNITION SYSTEM | Jan – May 2007

Course: *Digital Image Processing*

- Implemented modules for detecting and normalizing the number plate image.
- Developed a back propagation neural network based optical character recognition system using Matlab for identifying the alphanumerics of the license plate.

PATENTS

*"A System And Method For Controlling Display Device Using A Camera Based Device"**"A System And Method Of Generating Stereoscopic Images Using Mobile Devices"**"A System And Method Of Computing Rotation Angle And Tilt Angle By Employing An Opto-Mechanical Technique"*

SKILLS

Languages: Java, C, C++, Ruby, JavaScript, Lua*Frameworks:* Hadoop, MapReduce, Pig, Hive, Ruby on Rails, d3.js*Operating Systems:* Unix based systems, Mac OS XAWARDS AND
ACHIEVEMENTS

Received Best Attitude Award for the year 2010 from Samsung, India

Received merit-cum-need scholarship for the year 2004 at BITS-Pilani, India

Received the India Oil Corporation Ltd.'s scholarship from 2004-2008

Secured second position in Microsoft sponsored event Open Soft in annual technological fest Quark 2007, BITS-Pilani, India

OPEN SOURCE
CONTRIBUTIONS

OLAP CUBE operation, Grunt shortcuts in Apache Pig

Pig Latin mode in CodeMirror2 with support for syntax highlighting and auto-completion.