

CONTACT INFORMATION	227 W 8th Ave, Columbus, OH-43201 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 analytics, data mining	
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 Database Management Systems and Data Structures using JavaGraduate Research Assistant - Database Research GroupGraduate Assistant – Advanced Computing Center for Arts and DesignSpecialization – Distributed Systems and Large Scale Data AnalyticsCurrent GPA - 3.54 on a scale of 4.0 BITS-Pilani, India 2004 - 2008 BE (Honors) in Computer Science <ul style="list-style-type: none">Cumulative GPA - 7.59 on a scale of 10.0	
EXPERIENCE	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.Project related JIRAs PIG-2167, PIG-2710, PIG-2726, PIG-2765, PIG-2814, PIG-2831. 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.Implemented a mechanism for flushing the Instruction Cache using ARM assembly language for Just-In-Time interpretation of LLVM byte code. 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.Implemented DirectFB blit function using NEON intrinsic which improved the performance by ~30%.	

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, SWIG, 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.