Sravan Bagalkote   Resume

395, Old Boys Hostel (OBH),   email: sravanbagalkote@gmail.com

International Institute of Information Technology, website: web.iiit.ac.in/~sravan.bagalkote

Gachibowli , Hyderabad – 500032   phone: +91-9550447921

Education:

- June 1995 to March 1997 : Kindergarten at Little Angels School, Surat , Gujarat.
- June 1997 to March 2004 : St.Thomas High School , Dilsukhnagar , Hyderabad.
  - Secured 84% in Standard VII Board Examinations.
- June 2004 to March 2007 : Sanskar Vidya Bhavan , Bharuch , Gujarat.
  - Secured 95.2% in Standard X Board Examinations.
- July 2007 to April 2009 : Intermediate at Narayana Junior College,Kothapet,Hyderabad.
  - Overall 975/1000 for 2 years (97.5%)
- July 2009 to present: B Tech, Computer Science and Engineering, International Institute of Information Technology, Hyderabad.
  - Pursuing Undergraduate Honors in Security,Theory and Algorithms Lab under Dr. Kishore Kothapalli, Associate Professor, IIIT-H.
  - Currently in 6th semester, CGPA: **7.92** (at the end of 5 semesters).

Research Interests:

- Parallel Algorithms , GPU Programming.

Achievements:

- Awarded **Student of the Year** for the academic year 2005-06.
- District Topper in CBSE X Board Examination .
- **CIPEL** Gold Medal for English and General Knowledge in the Year 2006.
- **CIPEL** Gold Medal for Mathematics in the Year 2007.
- Received Amul Vidya Shree Award in the year 2007.
- All India Rank of 2223 in **AIEEE 2009** Examination.
- All India Rank 4880 in **IIT-JEE 2009** Examination.
- Finalist in **NSEF** Social Entrepreneurship Program 2012.

Research and Work Experience :

- ***Efficient Sparse Matrix – Matrix Multiplication on GPU using CUDA C.***(Monsoon 2011):

  Currently implementing and analysing parallel and efficient way of Sparse Matrix – Matrix Multiplication on GPU using different optimizations and three different algorithms. (using CUDA)

  Project Guide : Dr. Kishore Kothapalli ,Asst. Professor , IIIT-H

- ***Multi Tenant Order(SaaS) Management*** (Monsoon 2011) *:* Currently working on this project which focusses on Inventory and Order Management.This project is being implemented using various cloud technologies and NoSQL Databases.Vendors put-forth

their product list and the customers shall query upon their choice of products.Some of the technologies that are being used to implement this project are MongoDB, MemCache,Amazon EC2/

Project Guide: Dr . Vasudeva Varma , Associate Professor , IIIT-H

- *IIIT-H Media Portal* (Monsoon 2010): Built a Media Portal for our college for the Outreach department.

  Technical Project Guide: Vikram Pudi , Professor, IIIT-H.

- *BTP : Implementation of 3D Convex Hull on hybrid environment.*

  Project Guide : Dr. Kishore Kothapalli ,Asst. Professor , IIIT-H

- *Teaching Assitant – Humanities : Monsoon 2011*

- *Teaching Assistant – Computer System Organization : Spring 2012*

Minor Projects:

- **Linux shell:** Designed a basic Linux shell for running all type of commands with piping and redirection functionality, in C using system calls.

- **Proxy Web server:** Designed a proxy web server with cache functionality which serves HTTP requests from multiple clients. (using Java)

- **Basic Image Processing Algorithm:** Implemented algorithms like template matching, edge detection, image compression .(using Matlab)

- **Music Library:**Built an on-line music library (using web2py framework).

- **BASIC language Interpreter**:Was part of a team which implemented an interpreter for BASIC language .(using C)

- **Graphic API Libraries:** I developed the complete graphics pipeline from modelling, viewing, projection and view-port clipping .

- **Torrent Client :** Currently developing a c++ library on torrent client for android.

Relevant Coursework:

On-going **(Spring 2012)***:*

- Software Engineering, Principles of Information Security, Quantum Mechanics, Dharma polity and constitution of India.

Completed:

- Artificial Intelligence, Graphics, Computer Networks, Algorithms, Operating Systems, Introduction to Databases,Formal Methods , Engineering Systems .

- Data Structures, Computer System Organization,IT Workshop I and II (Bash, HTML, web2py, Python GTK).Computer Programming, Mathematics (Combinatorics, Probability, Complex Numbers ,Graph Theory, Linear Algebra).

- Complexity and Advance Algorithms, Compilers, Disaster Management, Cloud Computing, Numerical Analysis.

Future:

- Database Systems (Spring 2013), Corporate Strategy (Monsoon 2012).

Technical Skills:

Programming/Scripting Languages	C,C++, Java,CUDA C, Python
Web development	web2py, HTML , CSS , Jquery ,Swing(GUI),VAADIN(UI)
Operating Systems	Windows(XP , 7) , Linux(Ubuntu, Fedora ,SUSE).
Libraries	OpenGL , OpenCL (Basic) , OpenMP(Basic).
Programming environment	Eclipse, Vim,NetBeans.
Architectures	Hadoop , CUDA
Miscellaneous	MySQL, NoSQL, MATLAB,NDK Octave,Photoshop,DreamWeaver

Co-curricular and other activities:

- Currently part of the technical and design development team for various events like on-line events of Felicity 2012 (Technical and Cultural Festival of IIIT-H).

- Member of ASHAKIRAN , a school run by IIIT-H students for kids who come from nearby slums.

- I am interested in designing stuff in photoshop.

- Core member of Entrepreneurship-Cell in IIIT-Hyderabad.

- Member of Computer Soceity of India (CSI) in IIIT-Hyderabad.