

# Ajith Padyana

## Permanent Address:

s/o Narayana Bhat,

Sarigama House, P.O. kukkujadka,

Sullia Taluk, Dakshina kannada District, Karnataka, India

Email id : [ajith.padyana@gmail.com](mailto:ajith.padyana@gmail.com)

Mobile no : +919008947691

Phone no : 08257-284377

PIN : 574212

## Profile:

- M.Tech in Computer Science with good back ground in Mathematics.
- Proven academic excellence with publication in international conference.
- A team player and very committed. Part of University Marching Band.

## Academic Achievements:

- Paper Presentations at the 1<sup>st</sup> Student Symposium in the **15<sup>th</sup> IEEE International Conference on High Performance Computing**, December 2008

## Academic Qualifications:

COURSE	SPECIALIZATION	INSTITUTION	SCORE
M.Tech	Computer Science(CS)	Sri Sathya Sai University	<b>4.34*/5.00</b>
M.Sc	Mathematics and CS	Sri Sathya Sai University	<b>4.19/ 5.00</b>
B.Sc (Hons)	Mathematics	Sri Sathya Sai University	<b>3.71 / 5.00</b>
Class XII	P,C, M, B	Sri Sathya Sai Loka Seva Pre University College, Alike	<b>80%</b>
Class X		Sri Sathya Sai Loka Seva High School, Alike	<b>79.5%</b>

*\*Average of 2 semesters, 3<sup>rd</sup> semester results awaited.*

## Technical Skills:

- **Programming Languages:** C , C++ , MATLAB7.
- **Development Environments:** Visual Studio 2005.
- **Operating Systems:** Win XP, Linux (Fedora & Redhat), MINIX.
- **Web Development:** HTML, CSS, PHP, JavaScript.
- **Special Programming skills:** Advanced Programming in UNIX, Network Programming, Image Processing using Matlab7.
- **Subject Matter Expertise:** Operating Systems, Parallel Processing, Computer organization and Architecture

### ***Projects Undertaken:***

#### **Fast Floating Point Number Compression On Cell BE Processor**

*Scope:* **M.Tech Project**

*Aim:* **To Address various Bandwidth Limitations**

- I/O Bandwidth Limitations
- Network Bandwidth Limitations
- Memory Bandwidth Limitation particularly in Multicore processors

*Methodology:* Implementation of Prediction Algorithm: Stride Based Algorithm, Holt's Linear Exponential Smoothing usually used in finance.

*Prog. Language:* C and Cell Programming

*Conclusion:* Addresses the Network Bandwidth Limitations and I/O Bandwidth Limitations efficiently.

*Duration:* 6 months.

#### **Implementation of Processor Simulator.**

##### ***Methodology:***

- Defined a processor with single accumulator, basic registers and only register operations
- Defined and implemented a core set of instructions to support simplified design.
- The input was assembly code. This was decoded by module and executed on hypothetical processor.

*Prog. Language:* C

*Duration:* 3 weeks.

*Scope:* Mini Project, group project.

#### **MINIX kernel programming.**

*Scope:* Mini Project

*Methodology:* Modification of the existing Memory management algorithms and added a new simple system call.

*Prog. Language:* C

*Duration:* 2 weeks.

#### **Linux Kernel Customization.**

*Scope:* Mini Project

*Methodology:* Hands on experience in Linux Kernel Building and Customization.

*Prog. Language:* C

*Duration:* 1 and 1/2 weeks.

#### **Library Management System.**

*Scope:* Mini Project, group project

*Methodology:* Object Oriented Design and Implementation of Library Management System.

*Prog. Language:* C++  
*Duration:* 4 weeks.

### ***Conferences, Seminars and Workshops:***

- 15<sup>th</sup> International Conference on High Performance Computing- **HiPC December 2008, Bangalore.**
  - Approaches to parallel programming
  - Areas where parallel computing is used. Example : Gaming, Animations Movies.
- International Conference on Next Generation Information Technology for Societal Advancement and Integration by Sri Sathya Sai University- **NeXGEN IT for SAI**, July 2006.
  - Use of Technology for the development of rural areas.
  - To serve the people, using our knowledge and technology
- Seminars on Soft Skills, Multicore Programming like OpenMP, Cell BE, CUDA and Regular Expressions

### ***Extra Curricular Activities***

- Member of **University Brass Band** for seven years where I played Saxophone for the Band.
- Member of award winning team at the Annual University Orchestra Competition for 5 years.
- Captain of the University Cricket Team and Football Team.
- Headed and organized many cultural programs on many special occasions in the Institute and Hostel.
- Singles and Doubles Champion in University Shuttle Badminton and Tennis Championship for Four Years.
- 

### ***Communication***

- Proven communication skills: Have compeered at various functions in the college and in the hostel.

### ***Community Activities***

- Participated in Grama Seva: Integrated rural development programs (huge service project providing food and clothing to a group of villages in the District of Anantapur, Andhra Pradesh, India)
- Organized several cultural programs on special occasions in the Institute and Hostel.

### ***Personal Details***

- Date of birth: 15<sup>th</sup> August 1984
- Nationality: Indian
- Marital Status: Single
- Languages: English, Hindi, Telugu, Kannada

- Passport: Valid. (Passport No : **G0549554**)