K S Bharathwaj

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EDUCATION

National Institute of Technology Tiruchirappalli — Tiruchirapalli, India
Bachelor of Technology, Electrical and Electronics Engineering — May 2018 (Expected)
Cum GPA: 8.37/10

Vidya Mandir Sr Sec School — Chennai, India
High School (Score: 96.2%) — March 2014

EXPERIENCE

Indian Institute of Technology (IIT), Delhi | Research Intern — Mentor: Dr. Rahul Garg
Jul 2016 - Aug 2016 | Delhi, India

- Worked on the parallel implementation of full-brain auto regressive modelling[1].
- Implemented a CUDA application to accelerate the computation which resulted in saving an estimated time of 9 hours
- Achieved 16.8 Gflops for the fastest kernel.

Delta Force (Computing Club, NIT Trichy) | Application Developer
Aug 2015 - Present | Tiruchirappalli, India

- Developed android mobile applications for university related cultural and technical fests.
- Conducted workshop on Image processing using OpenCV for Currents (technical fest of Electrical Department).

PROJECTS

JPEG Image Compression Using CUDA | Aug 2016 - Present
A project to improve the performance of common JPEG compression algorithms using the CUDA architecture.

Spam Filter | Mar 2016
A spam filter built using Support Vector Machines

COURSEWORK

UNDERGRADUATE

Basics of Programming
Numerical Methods
Networks
Data Structures & Algorithms *
(* In Progress)

INDEPENDENT

CS50
Machine Learning
Artificial Neural Networks
Parallel Computing
Image Processing
Signal Processing
Mobile Application Development

PROGRAMMING

PROFICIENT

C • C++ • Java • Android
CUDA C/C++ • OpenCL C/C++

FAMILIAR

Python • Matlab/Octave • Git
Caffe • OpenCV • HTML
MySQL • LaTeX

GOOGLE PLAY

Festember'15 • Pragyan'15
Nittfest'16 • Festember'16

AWARDS

- Finalist SCDC by Shaastra, IIT Madras (2016)
- Second GPU coding by Pragyan, NIT Trichy (2015)
- Inspire Scholarship - MHRD, Govt. of India (2014)

INTERESTS

- Machine Learning
- Parallel Computing (GPGPU)
- Image Processing

[1] https://goo.gl/oLVgaK