Jai Luthra

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EDUCATION

JULY 2017 Graduating MAY 2019	**IIIT-Delhi** 5th Semester, B.Tech - **Computer Science and Engineering** GPA: 8.32/10.0
APRIL 2015	**Bal Bharati Public School, Pitampura**, New Delhi All-India Senior Secondary Certificate Examination (CBSE), Class XII SCORE: 94.8%
APRIL 2013	**Bal Bharati Public School, Pitampura**, New Delhi All-India Secondary School Examination (CBSE), Class X GPA: 9.8/10.0

INTERNSHIPS AND RESEARCH

MAY 2017 - CURRENT	**IIIT-Delhi** *Undergraduate Student Researcher, Speech and Audio Processing Group* • Currently working on end-to-end speech recognition using Kaldi. Advisers: Dr. Pravesh Biyani, Dr. Saket Anand

MAY - AUGUST 2016	**Google Summer of Code - FFmpeg**
	Student Contributor (Project Page)
	• Wrote an encoder for Dolby TrueHD, a lossless audio compression codec.
	• Updated and merged the MLP (Meridian Lossless Packing) encoder,
	  originally written by Ramiro Polla in 2009.
	  Mentor: Rostislav Pehlivanov (atomnuker)

ACHIEVEMENTS

AUGUST 2014	**Procon Junior** *Rank 4* • Procon Jr. is a competitive programming contest for school students, organized by IIIT-D. • Top 10 students get bonus marks during IIIT-D admission counselling through JEE.
DECEMBER 2012, 2013	**Google Code-In - KDE, NetBSD** *Completed 6 challenges* • KDE - Bug fixes for Trojita, KStars and Amarok. • NetBSD - Documentation on how-to dual boot with NetBSD.

SKILLS

SOFTWARE:	C, Python, Django, C++, Git, Linux
PLATFORMS:	Arduino/AVR, x86 asm, ARM asm
HARDWARE:	Embedded C, Verilog

PROJECTS

NOVEMBER 2016	**armsimc** & **armcpu**	An ARM simulator in C, and a baby ARM CPU in Verilog. (Course project)
APRIL 2016	**Mapbots**	Mapped rooms using a ring of ultrasonic sensors mounted on a small robot. Map-generation implemented using the Hough Transform and Kalman Filters. (Course project)
JANUARY 2016	**TechTree**	A course dependency visualizer for IIIT-D students Uses graphviz, d3.js and django.
2016	**Kompress**	Text compression tool written in C, based on Huffman Coding.

My **github profile** has all my other small projects and contributions.

AREAS OF INTEREST

Linear Algebra	Signals and Systems	Communication Systems
Audio Processing	Algorithm Design	Information Theory