

Jai Luthra

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WORK EXPERIENCE

AUGUST 2019 (Current)	Amazon Development Center, Bengaluru <i>Software Development Engineer</i> <ul style="list-style-type: none">Working in Amazon Fulfillment Technologies. Areas: AWS Networking Services (APIG, ALB), Orchestration (SWF, Step Functions)
MAY - AUGUST 2019	VideoLAN - Google Summer of Code <i>Contributor</i> (Project Page) <ul style="list-style-type: none">Added support for NVDec, NVIDIA's hardware acceleration video decoding API. (GitLab Repo) Mentors: Steve Lhomme, Thomas Guillem
MAY - JULY 2018	Amazon Development Center, Bengaluru <i>Software Development Engineer - Intern</i> <ul style="list-style-type: none">Worked with the Automated Advertising team.Created a Spring web app for AWS Simple Workflow Service (SWF) monitoring API.
MAY - AUGUST 2016	FFmpeg - Google Summer of Code <i>Maintainer</i> (Project Page) <ul style="list-style-type: none">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)

EDUCATION

DECEMBER 2019	IIIT-Delhi Bachelor of Technology - Computer Science and Engineering
APRIL 2015	Bal Bharati Public School, Pitampura , New Delhi All-India Senior Secondary Certificate Examination (CBSE), Class XII

SKILLS

LANGUAGES:	C, Python, Java, C++, Rust
SOFTWARE DEV.:	CUDA, OpenGL, AWS, React
HARDWARE:	Embedded C, Verilog
ASSEMBLY:	Arduino/AVR, x86 asm, ARM asm

PROJECTS

2019	foveated raytracer	Foveated ray tracer in C++ for eye-tracking VR headsets.
2017	ans	Hacking around Asymmetric Numeral Systems (ANS) entropy coding in C
2017	kaldi-asr	A wrapper around Kaldi, for easy speech recognition and alignment.
2016	armsimc & armcpu	An ARM simulator in C, and a baby ARM CPU in Verilog.
2016	Mapbots	Mapping rooms using a ring of ultrasonic sensors mounted on an autonomous bot
2016	Kompres	Text compression tool written in C, based on Huffman Coding.

ACADEMIC INTERESTS

Multimedia Codecs	Computer Graphics	Information Theory	Digital Signal Processing	Quantum Computing
Linear Algebra	Operating Systems	Algorithm Design	Computer Architecture	Virtual Reality

ACHIEVEMENTS

AUGUST 2014	Procon Junior (IIIT-Delhi) <i>Rank 4</i> <ul style="list-style-type: none">A competitive programming contest for highschool students in India.
DECEMBER 2012, 2013	Google Code-In - KDE, NetBSD <i>Completed 6 challenges</i> <ul style="list-style-type: none">KDE - Bug fixes for Trojita, KStars and Amarok.NetBSD - Documentation on how-to dual boot with NetBSD.