Dineshkumar Bhaskaran

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PROFESSIONAL EXPERIENCE

SENIOR MEMBER OF TECHNICAL STAFF
AUG 2019 – TILL DATE

AMD INDIA PVT LTD

Accelerated Data Science for ROCm

Ongoing activity for adopting Rapids projects for implementing popular pyData libraries for data science application on AMD GPU for ROCm stack. Owner for rapids' CUDF projects like rapids-cmake, rapids memory manager (RMM), and NVComp. CUDF is a close substitution for pandas.

MLPerf Inferencing

Implemented python reference code for models resnet50, yolov4 and Bert on AMD Instinct GPUs for multiple backends like pytorch, tensorflow, Tensor virtual machine (TVM) and MIGraphX.
Implemented C++ lightweight inference server for resnet50 on TVM and improved performances by 51.5%.

ROCm Clang compiler

- ROCm Compiler Support maintainer from Aug 2019 to Sept. 2021.
- Implementation of Multithreading and in-memory compilation support for AMDs lightning compiler (based on LLVM). In-memory compilation improved overall compilation process by 1.07% on Linux and ~29% on windows.

PRINCIPLE ENGINEER
FEB 2012 - JUNE 2014

CAPGEMINI ENGINEERING (previously ARICENT)

- ✓ Led efforts to create an accelerated storage I/O library using GPUs. Developed parallel and improved erasure-code algorithms in CEPH. This work was presented at SNIA SDC India and then Santa Clara under the title "Accelerated Erasure Coding: The New Frontiers of Software-Defined Storage – 2018".
- ✓ Led a team to create software defined radio solution for Aricent. Involved in offloading FFT algorithm in OpenAirInterface 4G stack with NVIDIA GPUs and Xilinx FPGAs.

PRINCIPLE ENGINEER
FEB 2012 - JUNE 2014

CANON INC JAPAN, INDIA

- ✓ Led a team to create an efficient medical image processing library for Canon medical apparatuses. Parallelized and optimized Image registration algorithm components like Pre-processing algorithms, Optimizers (Powell, LM, GD, SGD), Metrics (MI, NMI, RIU, SSD), transformation algorithms, and Resampler.
- ✓ Managed and lead a team, that maintained and enhanced Linux based OS for Canon embedded products. Involved in porting Linux kernel and essential system applications to various ARM based SoCs.

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PROFESSIONAL EXPERIENCE

EDUCATION

BACHELOR OF COMPUTER SCIENCE FEB 2012 - JUNE 2014

INSTITUTE OF TECHNOLOGY

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MASTER OF COMPUTER SCIENCE FEB 2012 - JUNE 2014

MANAGEMENT COLLEGE FOR ENGINEERING

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