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Education

International Institute of Information Technology, Naya Raipur

Naya Raipur, India

B.TECH IN COMPUTER SCIENCE AND TECHNOLOGY

July 2016 - 2020

• CGPA: 9.38/10

Industry Experience ___

Quansight Remote

SOFTWARE DEVELOPER (PyTorch - Open Source)

May 2021 - Present

- Contributing to PyTorch core code-base with the teams at Quansight and Facebook
- · Projects contributed: Sparse Project, NumPy Compatibility, OpInfos for testing, Structured Kernels, PyTorch's special module
- PRs: https://github.com/pytorch/pytorch/pulls/krshrimali
- Tech Stack: C++, Python, CUDA, JIT, Compilers, TorchScript, NumPy, pybind11

NVIDIA Santa Clara, USA

SOFTWARE DEVELOPER INTERN (PYTORCH DEV TEAM)

January 2020 - April 2020

- Contributed to introduce Type Promotion support for Unary Universal UFuncs in PyTorch for both CUDA and CPU devices.
- · Improved test framework for universal unary functions in PyTorch. Fixed CUDA level bugs for PyTorch functions.
- Added inverse trigonometric functions to PyTorch for both CUDA and CPU devices.
- Tech Stack: C/C++, CUDA (Framework), CUDA GDB, PDB (Python Debugging), Nsight Compute, Python (for tests)

Care.Al Florida, USA

APPLIED AI ENGINEER INTERN

April 2020 - September 2020

- Optimized existing face recognition models in the pipeline for edge devices using TensorRT (C++) and created Python bindings for utility functions to optimize the code further.
- · Implemented a speech recognition model using Kaldi for hand wash detector. The model was also deployed on a sample android app.
- Technical Stack: TensorRT, PyTorch, Android Studio (for PoCs), Kaldi, C/C++, Python, RabbitMQ, Amazon Kinesis.

Rapid Rich Object Search (ROSE) Labs, NTU Singapore

Singapore

VISITING RESEARCHER (COMPUTER VISION)

May 2019 - July 2019

- Created a sample dataset of 1M license plates using augmentation and parallel processing (to speed up the process).
- Trained custom model using YOLO and OCR-Net for license plate recognition, taking Top-5 accuracy for double license plates from 55% to 85%.

Big Vision LLC California

COMPUTER VISION AND MACHINE LEARNING INTERN

March 2018 - May 2019

- Worked on deploying Computer Vision applications for text detection in C#.
- Implemented BRISQUE method for no reference image quality assessment and wrote a detailed blog on it's working.
- · Optimized facial landmark detection models: Kazemi and LBF in OpenCV for 9-points instead of 68 points.

Skills_

Frameworks PyTorch, TensorRT, OpenCV, NumPy, Spacy, Deepstream, JAX **Programming Languages** C, C++, CUDA, Python

Skills Unit testing, MLOps, Optimization, Software Development, DevOps

Extracurricular Activity _____

Technical Blog

TECHNICAL BLOG WRITER - PYTORCH, OPENCV, C++

July 2018 - Present

• Received >50k views and >10k unique users from >100 countries in the world.

Student Activity Council

IIIT Naya Raipur

SCIENCE AND TECHNICAL HEAD

July 2018 to July 2019

• Organized Techno-Cultural fest of the institute and headed the science and technology events in the fest and started multiple clubs in the institute: AIML Society, TSoC (programming and development). All the work was done along with the team of SAC and President, SAC.

DECEMBER 23, 2021 KUSHASHWA RAVI SHRIMALI · RESUME