

# Raman Shinde

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## EXPERIENCE

- **Qualcomm** Banglore, India  
Mar. 2024 - Present  
*Senior Lead Engineer [AI Research]*
  - \* Implemented texture support support for OpenCL and Vulkan backends in TVM, optimizing data access patterns on Adreno GPUs to achieve a **50%** reduction in inference time.
  - \* Extended TVM by adding support for new operators, layers and runtime features, enabling deployment of LLMs and Diffusion models on edge hardware.
  - \* Integrated CLML acceleration into the GGML and llama.cpp frameworks, bypassing generic compute paths to deliver hardware-optimized performance for on-device inference.
- **Imagination Technologies** Pune, India  
Sep. 2021 - Mar. 2024  
*Deep Learning Engineer*
  - \* Developed an SDK enabling neural network execution on GPUs and NNAs using TVM, simplifying and accelerating model deployment on edge devices.
  - \* Optimized RelayIR by developing custom graph transforms, improving execution efficiency across diverse workloads.
  - \* Contributed to the development of quantization tools (static, dynamic, and QAT) for multiple frameworks, enhancing model compression and boosting inference speed.
- **Xpanxion** Pune, India  
Jan. 2020 - Sep. 2021  
*Data Scientist*
  - \* Developed AI/ML solutions to extract information from medical documents, including document classification and candidate extraction (e.g., benefits, rates, and drug details).
  - \* Built reusable AI/ML components within the Innovation Team, including a content-based and collaborative recommendation system, NLP modules such as Named Entity Recognition (NER), QA systems, and sequence translation.
  - \* Led Computer Vision projects involving object localization and detection, image segmentation, and gesture recognition.
- **Siemens R&D** Pune, India  
Dec. 2018 - Dec 2019  
*Product Development Engineer*
  - \* Developed and enhanced an application for designing manufacturing sequences, with significant contributions to debugging and resolving issues in existing code.
  - \* Accelerated feature deployment by implementing new use-cases and Proof-of-Concepts (POCs), enabling faster shipping of key features.
- **TCS** Pune, India  
Dec 2015 - Nov 2018  
*Software Developer*
  - \* Developed monitoring and control applications for NCRA, including real-time issue monitoring, debugging, and GUI modifications based on client requirements.
  - \* Provided support for financial applications such as CRD and SRD for Morgan Stanley, ensuring reliable performance and issue resolution.

## TECHNICAL SKILLS

- **Languages/Frameworks** : Python, C++, C, PyTorch, TensorFlow
- **Cloud/Deployment** : AWS, GCP, Docker, Kubernetes, Git

## EDUCATION

**B.Tech in Electronics and Telecommunication**, SGGSIE&T, Nanded with **CGPA 7.7** (2011 - 2015)