JOSHUA SAMUEL A

Chennai India
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Summary

Analytical and resourceful intern specializing in medical imaging and AI/ML. Known for developing a 3D Organ Anomaly Detection system that enhances visual analysis in medical training. Ready to contribute technical skills and innovative solutions to the tech industry.

Skills

- Medical imaging
- 3D modeling
- Team collaboration
- Machine learning
- FastAPI development

Experience

May 2025 to October 2025

C.H.A.I.R — Chennai, IN
Intern

- Project/Work Overview:
  During my internship at the Center of Healthcare, I am actively developing a 3D Organ Anomaly Detection for Medical Training in VR/AR pipeline. This project is a collaborative effort aimed at taking raw MRI brain scans, automatically segmenting any anomalies (specifically tumors) present, and generating interactive 3D models of both the brain and the detected anomaly for clearer visualization and analysis within a comprehensive application framework, eventually targeting VR/AR integration for medical training.
- Technical Aspects:

  Languages: Python

  Backend Framework: FastAPI

  AI/ML & Medical Imaging Libraries: PyTorch, MONAI (for model training, validation, and inference, including UNet architecture and light-weighted models), NiBabel, scikit-image, NumPy, Trimesh

Education and Training

Expected in August 2027

VIT CHENNAI — CHENNAI
B.Tech: Electronics With Computer Science Engineering

Languages

Tamil: First Language

English: B1
Intermediate (B1)

German: A1
Beginner