

Charan Vardham

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EDUCATION

Case Western University

Bachelor of Science in Computer Science, Minor in Math

Cleveland, OH

Aug. 2024 – May 2027

Relevant Courses

Intro to Data Structures, Discrete Mathematics, Programming in Java, Algorithms, Computer Security, Linear Algebra

EXPERIENCE

Undergraduate Student Researcher

Case Western Reserve University

Aug 2025 – Present

Cleveland, OH

- Applied deep learning methods to generate CT scan images with varying reconstruction kernels, enabling analysis without direct access to raw imaging data

Freshman Outreach Representative

Case Western Reserve University

Aug 2024 - Present

Cleveland, OH

- Designed and implemented a Node.js nutrition app, providing meal recommendations based on dietary intake and fitness goals.
- Coordinated outreach efforts for the largest CS club on campus, engaging incoming students through weekly meetings, workshops and social events.

AI/ML Intern

IQVIA

May 2025 - Aug 2025

Remote

- Built a RAG-based medical chatbot with a FastAPI backend and Next.js frontend, enabling users to query uploaded medical PDFs with chat history stored in MongoDB
- Worked on the backend team for a voice-enabled chatbot using NVIDIA Riva, implementing API methods to integrate real-time STT/TTS with an LLM for natural voice interactions

Researcher

CWRU Quants

Nov 2024 - May 2025

Cleveland, OH

- Extracted and engineered features from earnings call transcripts by applying NLP techniques such as TF-IDF vectorization and readability metrics (e.g., Flesch Reading Ease).

PROJECTS

CycleGAN Framework | *Pytorch, Matplotlib, Pandas*

August 2025 - September 2025

- Developed a CycleGAN framework capable of translating images between horses and zebras without paired training data.
- Implemented custom data loading, generator-discriminator architecture, and training loop to achieve stable adversarial training

Streamlit-GenAI App | *Streamlit, Python, Tavily API, Open-source LLMs*

May 2025 - June 2025

- Built a Streamlit GenAI app to scrape websites and answer user queries using LLMs with turn-based chat history.
- Integrated Tavily API, open-source LLMs, and a dashboard for search analytics — no LangChain used.

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Next.js, Material-UI, FastAPI

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch, TensorFlow