# RITIKA GHANTI

ritika.ghanti7@gmail.com | www.linkedin.com/in/ritika-ghanti/ | (682) 406-8664

## OBJECTIVE

Hardworking and passionate software engineer, seeking a role in software development to create software which will make people's lives better. Available to work on OPT.

## EDUCATION

**Master of Science in Computer Science (GPA: 4.0)**                                                                 *Aug 23 – May 25*
*The university of Texas at Arlington*
Course work: Design and Analysis of Algorithms, Artificial Intelligence, Database Systems, Software Engineering II, Advance topics of Software Engineering, Data Mining, Computer Networks, Data Analysis and Modelling Technique

**Bachelor of Engineering in Computer Science (Placed in Distinction)**                                      *Jun 19 – Jul 23*
*Don Bosco College of Engineering, India*

## SKILLS

- Languages: Java, Python, C++, JavaScript, HTML, CSS, Kotlin, PHP, Bootstrap
- Artificial Intelligence: PyTorch, NLP, Scikit-Learn, TensorFlow, OpenCV, Model Training
- Web Technologies: XML, JSON, Node.js, JavaScript, REST APIs
- LLM: RAG, VectorDB, Embedding, Semantic search
- Cloud: AWS, Google Cloud, EC2, S3
- Database: Firebase, SQL, NoSQL
- Computer Network tools: Wireshark, Fiddler, Packet Tracer
- Other Technologies: Rest API, Android, Jenkins, Ansible, Docker, GIT

## INDEPENDENT PROJECTS

**Neural Chatbot (Retrieval Augmented Generation, LangChain, Intel Neural Chat 7B)**                 *May 24*
- Gives 95% accurate responses to questions asked from any uploaded document
- Employed LangChain for orchestration and management of chatbot components
- Integrated BGE Embeddings and Chroma DB for robust query handling and efficient processing

**Musiqi (ReactJS, HTML, CSS, Shazam API)**                                                                                      *Apr 24*
- A web application that seamlessly fetches and streams music using the Shazam API
- Provide users with an extensive and up-to-date music library using NodeJS, HTML and CSS
- Engineered the backend with NodeJS, achieving a 25% reduction in response
- Conducted functional and UI testing using Selenium WebDriver that decreased bugs and errors by 20%

**LearnSketch(Python, Kotlin, Android Application Development)**                                                       *Jul 23*
- A mobile app empowers artists by systematically detecting and rectifying deviations from reference images
- Reduced sketch inaccuracies by 15% by correcting deviations from reference images

## WORK EXPERIENCE

**Graduate Teaching Assistant – The University of Texas at Arlington**                              *August 24 – Present*
- Demonstrated expertise in Advanced Software Engineering principles and coding languages (Java, C++, Python)
- Conducted detailed code reviews and held office hours to support students and offer actionable feedback
- Assisted with paper presentations and assignments to deepen student understanding of advanced topics

**Student Assistant – The University of Texas at Arlington**                                                    *May 24 – Jul 24*
- Demonstrated reliability and initiative by managing independent tasks
- Collaborated effectively with colleagues to ensure a cohesive team environment
- Provided excellent service to members through effective communication and assistance

**Web Developer – CodeRelix**                                                                                                        *Aug 22 – Dec 22*
- Collaborated with senior developer to develop and maintain a Laravel framework web application
- Worked on database management, schema design, data migration, and SQL query optimization
- Using JavaScript and Bootstrap responsiveness was provided along with handling server tasks with PHP and MySQL managing the database