

Angela Emile Jose

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[LinkedIn](#) | [GitHub](#) | [Portfolio Website](#)



OBJECTIVE

Final-semester double degree Computer Science Engineering student at Kyungpook National University seeking an entry-level position in the tech industry. Offering a solid academic background in AI/ML and full-stack development, combined with proven leadership experience and award-winning research contributions. Eager to apply technical expertise and problem-solving skills to contribute to innovative technology solutions.

KEY COMPETENCIES

- Specialization: Artificial Intelligence and Machine Learning
- Programming Languages: Python, C, java
- Algorithms and Data Structures
- Strong interpersonal skills
- Proactive and self-motivated
- Excellent communication skills

PROFESSIONAL EXPERIENCE & RESEARCH

SSE Lab, Kyungpook National University (KNU) Research Assistant

May 2025 – Present

- Conducting research on Large Language Models (LLMs) for formal verification of software.
- Developing an **automated pipeline to translate C program specifications into formal language specifications for verification using the CBMC model checker.**

MLFM Lab, Kyungpook National University (KNU) Research Intern

Nov 2025 – Dec 2025

- Engineered machine learning models for Medical Image Registration, focusing on high-precision alignment of lung clinical data.
- Conducted rigorous experimental testing and validation, achieving a **0.91 correlation coefficient**, significantly improving the reliability of automated diagnostic registration.
- Optimized data preprocessing pipelines to handle complex clinical datasets, ensuring consistency across multi-modal imaging sources.

Computational Biology and Bioinformatics Lab Research Assistant Intern

Sept 2024 – Nov 2024

- Provided comprehensive technical and analytical support for a Master's student's thesis, focusing on data processing and analysis within the field of computational biology.

ThinkPalm Technologies Pvt. Ltd

April 2024 – May 2024

Research Assistant Intern-AI Department

- Contributed to various **small-scale Artificial Intelligence projects**, gaining practical experience in implementing machine learning solutions.
- Focused on core tasks including **object detection and image classification algorithms.**

PROJECTS

KNU Link – Anonymous Social Discovery Platform

Jan 2026

- Built a Next.js social discovery app enabling students to connect through shared activities via Tinder-style swipe interface and real-time chat
- Implemented full authentication flow, PWA capabilities, and responsive UI using TypeScript, Tailwind CSS, Supabase, and Framer Motion
- Deployed to Vercel with mobile-first design for anonymous, activity-based student networking
- [link](#)

Project Collaboration (Company: WIM)

Sept 2025 - Dec 2025

- Collaborated on a project titled “**A Study on Audio Noise Cancellation Using a TasNet-GAN Model**” to design a low-cost hearing aid circuit and apply a TasNet-GAN deep learning model, achieving a 31% improvement in PESQ and 14% improvement in STOI for audio quality enhancement. The project was awarded **1st place** at the **KICS conference**.

Personal Portfolio Website

Dec 2025

- Designed and built a full-stack portfolio website showcasing projects, work experience, and technical skills
- Implemented smooth animations and transitions using Framer Motion for enhanced user experience
- Deployed on Vercel with automatic deployments via GitHub integration
- Tech Stack: Next.js 14, TypeScript, Tailwind CSS, Framer Motion
- [Live: https://angelaemilejose.vercel.app/](https://angelaemilejose.vercel.app/)

NutriFlow AI

Nov 2025 – Dec 2025

Multimodal Nutrition Analysis System

- Co-developed an intelligent, multimodal agentic workflow to **automate nutritional tracking using LangGraph and Qwen-VL-Plus**.
- Implemented Visual Dish Recognition for multi-item identification and portion estimation, integrated with a dynamic online query tool for real-time nutritional API fetching.
- Tech Stack: Python, LangGraph, Qwen-VL-Plus, Multi-agent Systems.

ReportRAG

Dec 2025

Intelligent Financial Analysis System

- Built a **Retrieval-Augmented Generation (RAG) system** to extract insights from 100+ page annual reports and financial statements using Llama 3 (Groq API).
- Developed a high-performance vector retrieval pipeline using FAISS and SentenceTransformers to reduce LLM hallucinations through strict context enforcement.
- Designed "fact-check" prompt engineering workflows to provide cited, precise answers to complex financial queries (e.g., gross margin analysis).
- **Tech Stack: Python, FastAPI, LangChain, FAISS, Llama 3-70B, PyMuPDF.**

K-Context

Dec 2025

Cultural Interpretation Translator [website](https://koreantranslator.vercel.app/) : <https://koreantranslator.vercel.app/>

- Developed a specialized translation web app for international travelers in Korea, utilizing Google Gemini 2.5 Flash for high-context linguistic analysis.
- Engineered features beyond literal translation, including automated politeness level detection, safety scores, and localized tips for foreigners.
- **Optimized for mobile-first performance by implementing a Progressive Web App (PWA) architecture** with Next.js 16 (App Router).
- Tech Stack: Next.js 16, Tailwind CSS, Gemini 2.5 Flash, Vercel, PWA.

EDUCATION

Kyungpook National University ,South Korea
Bachelor of Engineering (B.E) in Computer Science (Double Degree Program)
Expected Graduation: 2026

Christ University, Bangalore, India
Bachelor of Technology (B.Tech) in Computer Science with specialization in AIML and Minors in General Management.
Expected Graduation: 2026
-GPA- 3.88/4

EXTRACURRICULAR ACTIVITIES

English Mentor **june 2025- Present**
International Writing Center, KNU

- Mentoring and coaching Korean university students to significantly improve their English proficiency and academic writing skills.

Won the Video Contest hosted by the KNU-OIA

Maintains a Personal Blog :
https://blog.naver.com/angela_blogs

KNU Student Ambassador -2024

Member of the Student Council, Christ University