

# Angela Emile Jose

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## OBJECTIVE

Detail-oriented and motivated 4th-year B.E student majoring in Computer Science at Kyungpook National University, seeking an internship or entry-level position in the tech industry. Offering a solid academic background and leadership experience.

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## 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
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## PROFESSIONAL EXPERIENCE & RESEARCH

### SSE Lab, Kyungpook National University (KNU)

May 2025 – Present

#### Research Assistant

- 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)

Nov 2025 – Dec 2025

#### Research Intern

- 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

Sept 2024 – Nov 2024

#### Research Assistant Intern

- 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.**

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## PROFESSIONAL EXPERIENCE & RESEARCH

### 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**.

- 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/>

**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**

- 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

- GPA - 3.6/4.3

**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****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 Youtube****Maintains a Personal Blog****KNU Student Ambassador -2024****Member of the Student Council, Christ University**