

# Angela Emile Jose



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

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## 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.

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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.**

## PROJECTS

<b>KNU Link – Anonymous Social Discovery Platform</b>	<b>Jan 2026</b>
<ul style="list-style-type: none"><li>Built a Next.js social discovery app enabling students to connect through shared activities via Tinder-style swipe interface and real-time chat</li><li>Implemented full authentication flow, PWA capabilities, and responsive UI using TypeScript, Tailwind CSS, Supabase, and Framer Motion</li><li>Deployed to Vercel with mobile-first design for anonymous, activity-based student networking</li><li><u><a href="#">link</a></u></li></ul>	
<b>Project Collaboration (Company: WIM)</b>	<b>Sept 2025 - Dec 2025</b>
<ul style="list-style-type: none"><li>Collaborated on a project titled “<b>A Study on Audio Noise Cancellation Using a TasNet-GAN Model</b>” 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 <b>1st place</b> at the <b>KICS conference</b>.</li></ul>	
<b>Personal Portfolio Website</b>	<b>Dec 2025</b>
<ul style="list-style-type: none"><li>Designed and built a full-stack portfolio website showcasing projects, work experience, and technical skills</li><li>Implemented smooth animations and transitions using Framer Motion for enhanced user experience</li><li>Deployed on Vercel with automatic deployments via GitHub integration</li><li>Tech Stack: Next.js 14, TypeScript, Tailwind CSS, Framer Motion</li><li><u>Live: <a href="https://angelaemilejose.vercel.app/">https://angelaemilejose.vercel.app/</a></u></li></ul>	
<b>NutriFlow AI</b>	<b>Nov 2025 – Dec 2025</b>
<b>Multimodal Nutrition Analysis System</b>	
<ul style="list-style-type: none"><li>Co-developed an intelligent, multimodal agentic workflow to <b>automate nutritional tracking using LangGraph and Qwen-VL-Plus</b>.</li><li>Implemented Visual Dish Recognition for multi-item identification and portion estimation, integrated with a dynamic online query tool for real-time nutritional API fetching.</li><li>Tech Stack: Python, LangGraph, Qwen-VL-Plus, Multi-agent Systems.</li></ul>	
<b>ReportRAG</b>	<b>Dec 2025</b>
<b>Intelligent Financial Analysis System</b>	
<ul style="list-style-type: none"><li>Built a <b>Retrieval-Augmented Generation (RAG) system</b> to extract insights from 100+ page annual reports and financial statements using Llama 3 (Groq API).</li><li>Developed a high-performance vector retrieval pipeline using FAISS and SentenceTransformers to reduce LLM hallucinations through strict context enforcement.</li><li>Designed "fact-check" prompt engineering workflows to provide cited, precise answers to complex financial queries (e.g., gross margin analysis).</li><li><b>Tech Stack: Python, FastAPI, LangChain, FAISS, Llama 3-70B, PyMuPDF.</b></li></ul>	
<b>K-Context</b>	<b>Dec 2025</b>
<b>Cultural Interpretation Translator website</b> : <a href="https://koreantranslator.vercel.app/">https://koreantranslator.vercel.app/</a>	
<ul style="list-style-type: none"><li>Developed a specialized translation web app for international travelers in Korea, utilizing Google Gemini 2.5 Flash for high-context linguistic analysis.</li><li>Engineered features beyond literal translation, including automated politeness level detection, safety scores, and localized tips for foreigners.</li><li><b>Optimized for mobile-first performance by implementing a Progressive Web App (PWA)</b> architecture with Next.js 16 (App Router).</li><li>Tech Stack: Next.js 16, Tailwind CSS, Gemini 2.5 Flash, Vercel, PWA.</li></ul>	

## 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](https://blog.naver.com/angela_blogs)

**KNU Student Ambassador -2024**

**Member of the Student Council, Christ University**