# ALWIN JOSEPH

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## PROFILE

Computer Science and Business Systems graduate with strong programming skills and hands-on experience in software development. Proficient in frontend development, AI model integration, and technical problem-solving. Passionate about building scalable systems and implementing intelligent, user-centred software solutions through analytical engineering.

## EDUCATION

**Rajagiri School of Engineering and Technology, Kakkand**                                         2021 – 2025
*B.Tech in Computer Science and Business Systems*
**Sacred Heart Higher Secondary School, Thevara**                                         2021
*Higher Secondary Education*

## WORK EXPERIENCE

**Gensys(Department Association) - Rajagiri School of Engineering and Technology**                    2024
*Creative Lead*
- Led a team to develop visual branding and digital assets for various events and programs conducted by GenSys.
- Mentored team members on design tools and technical best practices to improve the quality of the assets.
- Collaborated with executive leadership to translate complex ideas into clear, functional documentation and event pipelines.

**Keltron Controls, Aroor**                                         2024
*Website Design and Developing Intern*
- Assisted in designing and developing the interface for Underwater Communication Protocol System (UCAPS).
- Designed and developed the user-to-component communication interface, focusing on Human-Computer Interaction.

## PROJECTS

**Personal Portfolio Website** | *UI Designer and Developer*
- Developed a high-performance, responsive web application using **React** and **Tailwind CSS** to showcase projects.
- Integrated interactive 3D components using **three.js**, implemented fluid, physics-based UI transitions.
- Performed **SEO** by implementing semantic HTML5 and Meta Tags, achieving high Lighthouse scores for discoverability.

**ELIS - Diagnostic AI Tutor** | *Lead Developer*
- Engineered a "Socratic" AI tutoring platform that identifies logic gaps in programming and CSS without providing direct answers, encouraging deeper conceptual understanding.
- Implemented a minimalist, distraction-free UI using **React** and **Tailwind CSS**, featuring a real-time system status indicator and progressive disclosure of hints.
- Integrated Gemini API with advanced system prompting to handle complex debugging scenarios across Python, React, and SQL domains.

**MotoBuddy - Community Riding Platform** | *UX Designer and Developer*
- Developed a cross-platform mobile application using **Flutter** for motorcycle enthusiasts to discover, plan, and join community-organised rides.
- Engineered a high-performance frontend featuring glassmorphic UI components, custom micro-interactions, and skeletal loading states to enhance user retention and perceived performance.

**SHMS - Smart Health Management System** | *AI Researcher and Model Developer*
- Curated and preprocessed large-scale medical datasets, including **MIMIC-CXR** and **NIH Chest X-Ray**, to train robust AI models for diagnostic interpretation.
- Designed and optimized computer vision models using **YOLOv5** for image analysis and **Pegasus** for automated medical report summarization.

**HomeChef** | *UI/UX Designer and Developer*
- Developed functional high-fidelity **prototypes** to simulate a seamless experience of online food delivery software.
- Performed requirement analysis and developed a responsive, full-scale mobile frontend using **Flutter**.

## TECHNICAL SKILLS

- **Programming:** React, TailwindCSS, HTML5, CSS3, JS, Flutter, C++, C, Python
- **AI & ML:** YOLOv5, Pegasus
- **Version Control:** Git/Github
- **Design Tools:** Figma, Adobe Illustrator, Photoshop, Premiere Pro, Blender
- **UX Skills:** User-Centred Design, Wireframing, Prototyping