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.

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