

ALWIN JOSEPH

Ernakulam, Kerala | +91 8281789226 | alwinjoseph1403@gmail.com
<https://github.com/AlwinJoseph3> | <https://www.linkedin.com/in/alwin-joseph-807420221/>

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, Kakkad

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 | Developer

- Engineered a Socratic AI tutoring platform that identifies logic gaps in programming 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.

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, TypeScript, 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