EDWIN JOJIE VARGHESE
B.Tech. - Computer Science & Engineering
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BRIEF SUMMARY

I'm a versatile software developer driven by a passion for AI/ML and full-stack development. I excel in building intelligent systems using computer vision and deep learning, alongside crafting user-friendly, scalable web applications with the MERN stack. My goal is to leverage technology to address real-world challenges through continuous learning and innovation.

My interests include developing AI/ML solutions for practical problems, designing full-stack web applications, and exploring cybersecurity and robotics. I'm always eager to tackle new challenges and collaborate on innovative projects.

Currently, I'm pursuing a B.Tech at Mar Baselios College of Engineering and Technology, Nalanchira, Thiruvananthapuram, Kerala (2022-Present). I completed my Higher Secondary education at Placid Vidya Vihar, Changanassery, Kerala (2020-2022), and my secondary schooling at Mar Dionysius Senior Secondary School, Mallappally, Kerala (until 2020).

Explore my work at https://edwinjojie.netlify.app/

EDUCATION

Mar Baselios College of Engineering and Technology (Autonomous) 2022 - 2026
B.Tech. - Computer Science & Engineering | CGPA: **6.83 / 10**

Placid Vidya Vihar, Mallappally 2022
12th | CBSE | Percentage: **88.60 / 100**

Mar Dionysius Senior Secondary School, Mallappally 2020
10th | CBSE | Percentage: **92 / 100**

INTERNSHIPS

IBS Software | IT / Computers - Software 02 Jun, 2025 - Present
Project Trainee

Key Skills: Full Stack Devolopment   Team Leadership   Web Devolopment   Web Designing

Redesigning and devoloping a POC for a current product,including and innovating ways to implement AI into the system for the best usage

Smart City Thiruvananthapurem Limited ,Trivandrum, Kerala | IT / Computers - Software 04 Dec, 2024 - 04 Jan, 2025
IT Intern

Key Skills: Computer Vision   Communication   AI Training   Team Leadership   Python   Machine Learning

Developed a deployable system to monitor illegal trash dumping using city surveillance cameras, enhancing urban cleanliness
Utilized vision-based AI models, experimenting with multiple frameworks to identify the optimal solution
Contributed to creating a greener, law-compliant city environment through AI-driven monitoring

Magnory Pvt Ltd,Trivandrum | IT / Computers - Software 02 Dec, 2024 - 31 Dec, 2024
Full Stack Developer

Key Skills: REACT   Electron   Firebase   Web Design   Communication   Team Leadership

Full Stack Developer Intern•
Developed real-world applications customized for client requirements
Designed and built integrated web and desktop interfaces using React, Node.js, and Electron
Implemented Firebase as the backend for efficient data management

ICT Academy of Kerala | IT / Computers - Software 01 Jul, 2024 - 16 Aug, 2024
Student Intern

Key Skills: MERN   Communication   Team Leadership

Applied MERN full-stack development to real-world scenarios, creating functional web applications.
Built multiple web interfaces and applications tailored to project requirements.

PROJECTS

Tail Assignment Problem in Flight Scheduling
08 May, 2025 - 08 May, 2025

Team Size: 4

Key Skills: Python MERN OR Tools

Project Link: https://github.com/edwinjojie/tail_assignment

A sustainable flight scheduling solution using Reinforcement Learning and OR Tools, optimizing assignments for flights, aircraft, and crews with an environmental focus.

Vehicle Trash Dumping Detection & Alerting
01 Feb, 2025 - 01 Apr, 2025

Mentor: Dr. Jisha John | **Team Size:** 3

Key Skills: Computer Vision MiDAS Python OpenCV Machine Learning

Project Link: https://github.com/edwinjojie/miniproject

A vehicle-specific trash dumping detection system using YOLOv8, MiDaS depth estimation, and a Flask web interface. Provides CSV/Excel reports and video evidence for targeted enforcement.

Waste Disposal Detection System
04 Dec, 2024 - 04 Jan, 2025

Mentor: Dr. Jisha John | **Team Size:** 3

Key Skills: Python OpenCV Pandas Computer Vision NumPy

Project Link: https://github.com/edwinjojie/Smart_city_project

A surveillance system detecting illegal waste disposal by humans and vehicles using YOLOv8 and custom tracking. Generates Excel reports with image evidence for city-wide enforcement.

Custom Trip Planning Website
01 May, 2024 - 08 May, 2024

Team Size: 6

Key Skills: React.js MongoDB Node.js Google Maps API

Project Link: https://github.com/edwinjojie/tourist_guidance_website

A MERN stack website for tourists, offering dynamic trip planning with maps, transportation, guides, a chatbot, and a translator for an enhanced travel experience.

Covid Cases Management System
01 Jun, 2021 - 01 Dec, 2021

Mentor: Mrs.Jincy Swarup | **Team Size:** 1

Key Skills: Python MySQL

Project Link: https://github.com/edwinjojie/Covid-Case-Management-system

A Python-MySQL system for managing COVID-19 cases, featuring multilevel authentication, data entry, analysis tools, and graphical visualizations for efficient case tracking.

ASSESSMENTS / CERTIFICATIONS

Cloud Computing and Distributed Systems
Aggregate: 65 / 100

Key Skills: Cloud Services Distributed Systems

Define Hackathon Best Project Award
Awarded Best Project with a ₹10,000 cash prize for an AI-driven flight scheduling solution under the 'AI in Airlines' theme, demonstrating expertise in innovative AI applications.

SQL Beginner to Guru: MySQL Edition - Master SQL with MySQL

Key Skills: MySQL

YIP Ideathon 1

YIP Idea submission 2

EY Techathon 4.0

Introduction to Self Driving Vehicles

INCEPTRA 2023

Key Skills: Entrepreneurship

Voice Controlled Bot Workshop

Introduction to Internet of Things
Aggregate: 78 / 100

SIH 2024 Qualification Certificate

SEMINARS / TRAININGS / WORKSHOPS

Self Driving Electric Vehicles Institute Name: KSHITIJ,IIT Kharagpur	28 Jan, 2023 - 28 Jan, 2023
Basics of AutoCAD AND SketchUp **Institute Name:** KSHITIJ, IIT Kharagpur	14 Jan, 2023 - 14 Jan, 2023
NOVA voice controlled Bot Workshop **Institute Name:** IEEE CET	19 Nov, 2022 - 20 Nov, 2022

WEB LINKS / IMs

- WhatsApp - 7025094018
- Personal - https://edwinjojie.netlify.app/
- Github - https://github.com/edwinjojie

PERSONAL DETAILS

Gender: Male
Marital Status: Single
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Date of Birth: 05 Jul, 2004
Known Languages: English,Malayalam,Hindi
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