

# JUAN JOE EDATTUKARAN

Edattukaran house P.O Mala Thrissur district Kerala Pin 680732

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## EDUCATION

**Bachelor of Engineering in Computer Science and Engineering (Specialization in Cloud Computing and Automation)** September 2022 - October 2026

Vellore Institute of Technology Bhopal

**HSC (CBSE), Class XII** April 2021 - March 2022

Sharjah Indian School - Boys Branch, Juwaiza Sharjah, U.A.E, 82%

## TECHNICAL SKILLS

**Core Technologies:** Python, HTML, CSS, SQL, MongoDB, Flask, AWS, Git, GitHub, Excel, Docs

**Domain Expertise:** Full-Stack Development, Database Management, Machine Learning, REST APIs, System Design, CI/CD, Cloud Automation, DevOps Fundamentals, MATLAB

## PROJECTS

**Self-Checkout Counter** July 2023 - August 2023

*Major Project as a part of curriculum*

- Engineered a full-stack self-checkout system using Python, MongoDB, HTML, and CSS, optimizing performance to process 50+ transactions/hour/unit
- Implemented barcode/QR code scanning with 95%+ accuracy and real-time billing for 200+ product entries
- Enhanced inventory management through real-time stock tracking and multilingual UI with sub-2-second operation flow

**Hospital Management Database** May 2024 - July 2024

*Personal Project*

- Developed a comprehensive hospital management platform using Python, Flask, MongoDB, HTML, and CSS, scaling to handle 1000+ patient and doctor records
- Automated appointment booking, medical history access, and prescription generation, reducing manual workload by 40%
- Implemented email reminder system, decreasing patient no-show rates by approximately 30%

**Tranquillising Dart Drone** December 2025 - April 2025

*(Engineering Projects in Community Service) Team Project*

- Oversaw hardware selection and integration of sensors/power systems, achieving 100% operational reliability during controlled test flights
- Utilized SolidWorks for CAD modeling and ANSYS for FEA/CFD analysis to validate structural integrity and aerodynamic performance under operational loads.
- Achieved 92% success rate in tranquilliser dart delivery through stable component integration and sensor accuracy

## EXTRA-CIRCULAR

- Winner, Ecom-Thon – Secured 2nd/3rd Position in a competitive event during the 4th Techno-Cultural Fest. February 2023

- Disciplinary Committee Member for Malayalam Club (regional), upholding organizational standards and ensuring a safe. November 2022 - March 2025

- Languages : English(Full Professional) , Hindi(Professional Working) , Arabic(Limited Working), Malayalam(Native)