JUAN JOE EDATTUKARAN

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EDUCATION

Bachelor of Engineering in Computer Science and Engineering	September2022 - Present
Vellore Institute of Technology	
HSC (CBSE), Class XII	April 2021 - March 2022
Sharjah Indian School - Boys Branch, Juwaiza Sharjah, U.A.E	

TECHNICAL SKILLS

Core Technologies : Python, HTML, CSS, SQL, MongoDB, Flask, AWS, Git, GitHub, Excel, Docs Full-
Domain Expertise : 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   May2024 - July2024
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-CIRRUCULAR

• Disciplinary Committee Member for Malayalam Club (regional), upholding   November2022 - March2025
  organizational standards and ensuring a safe.

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

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