Joepaul Vilsan

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Profile

I have completed my B.Tech in Computer Science and Business Systems from Rajagiri School of Engineering and Technology. As a tech enthusiast, I have actively participated in multiple projects, gaining valuable knowledge and hands-on experience across various domains.

Professional Experience

Intern 01/2025 – 04/2025

Tata Consultancy Services(TCS) Trivandrum, Kerala

- Worked on ML and signal processing projects using Hugging Face models and custom deep learning architectures for audio and text data.
- Built sentiment analysis models with BERT (GoEmotions) and developed frontend interfaces using React.
- Worked on an IoT system with Arduino Pro Micro and sensors for accessibility-focused applications.

Education

Rajagiri School of Engineering & Technology 2021 – 2025

B.Tech in Computer Science and Business Systems

- CGPA - 8.08

Christ Vidyanikethan, Irinjalakuda 2019 – 2021

12th ISC Board

- Scored 93%

Mary Matha ICSE School 2018 – 2019

10th ICSE

- Scored 91.5%

Skills

C | C++ | JavaScript | Node.js | HTML | CSS | Express | git | Python | Firebase | React

Awards

Best Strategist Award

Honoured with the Best Strategist Award by the Computer Science and Business Systems department for demonstrating exceptional leadership, collaborative skills, and the ability to guide peers in making thoughtful decisions.

Finalist, HackS'US - Edition 3

Finalist in HackS'US - Edition 3, a 24-hour inter-college hackathon organized by IEDC in partnership with Federal Bank. Collaborated with a team to develop an innovative project under tight deadlines, showcasing strong technical skills, creative problem-solving, and effective teamwork.

Projects

Astro – Vendor Collaboration Platform

- Built a platform to aggregate vendor orders using DBSCAN with genetic algorithm optimization.
- Implemented route optimization and demand forecasting using NeuralProphet.
- Managed real-time data with Firebase Firestore and validated logic with synthetic data.

SmartStock Pro

- Built using NodeMCU ESP8266 to detect shelf inventory and measure item weight.
- Enabled remote monitoring via ThingSpeak and automated alerts with IFTTT for low stock levels.